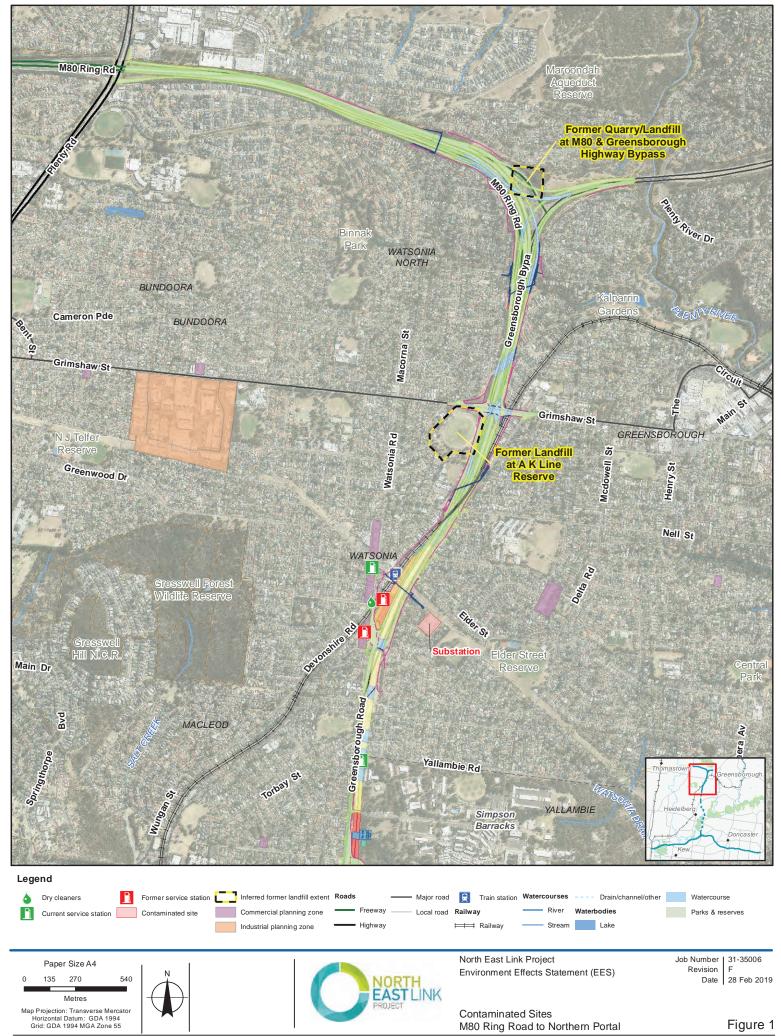
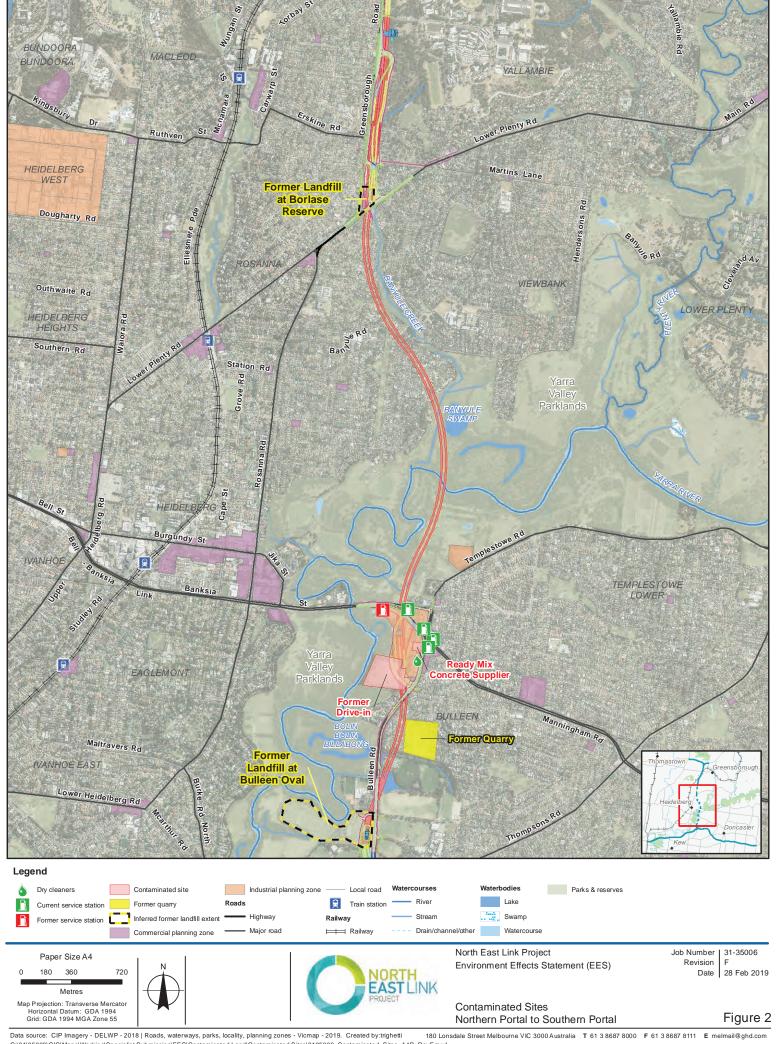


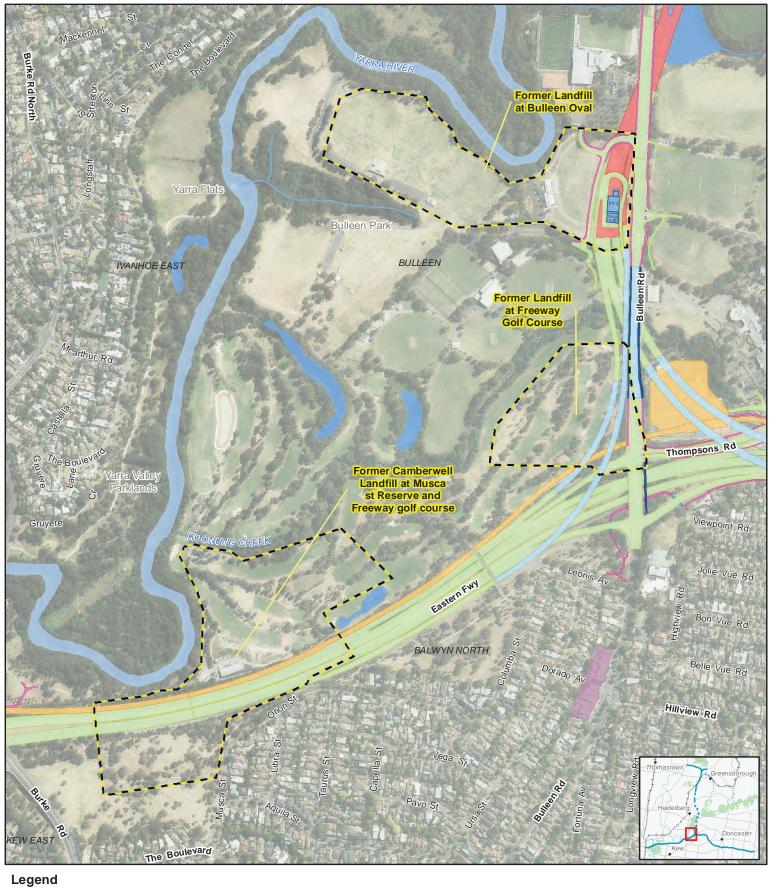
Appendix A – Figures



Data source: CIP Imagery - DELWP - 2018 | Roads, waterways, parks, locality, planning zones - Vicmap - 2019. Created by:trighetti 180 Lonsdale Street Melbourne VIC 3000 Australia T 61 3 8687 8000 F 61 3 8687 8111 E melmail@ghd.com



Data source: CIP Imagery - DELWP - 2018 | Roads, waterways, parks, locality, planning zones - Vicmap - 2019. Created by:trighetti 180 Lon G:\\31\\35006\GIS\\Maps\\Working\Specialist Submission\EES\\Contaminated Land\\Contaminated Sites\\3135006_Contaminated_Sites_A4P_RevF.mxd







Map Projection: Transverse Mercator Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 55



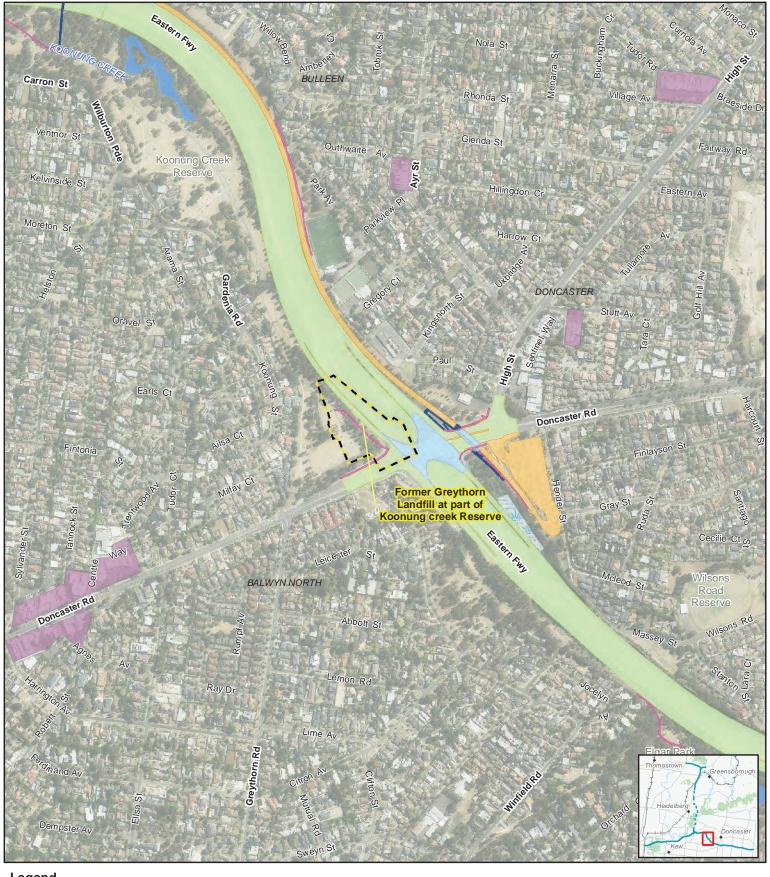


North East Link Project Environment Effects Statement (EES) Job Number | 31-35006 Revision | F Date | 28 Feb 2019

Contaminated Sites Eastern Freeway (West)

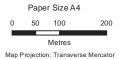
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Data source: CIP Imagery - DELWP - 2018 | Roads, waterways, parks, locality, planning zones - Vicmap - 2019. Created by:trighetti 180 Lonsdale Street Melbourne VIC 3000 Australia T 61 3 8687 8000 F 61 3 8687 8111 E melmail@ghd.com G:\31\35006\GIS\Maps\Working\Specialist Submission\EES\Contaminated Land\Contaminated Sites\3135006_Contaminated_Sites_A4P_RevF.mxd



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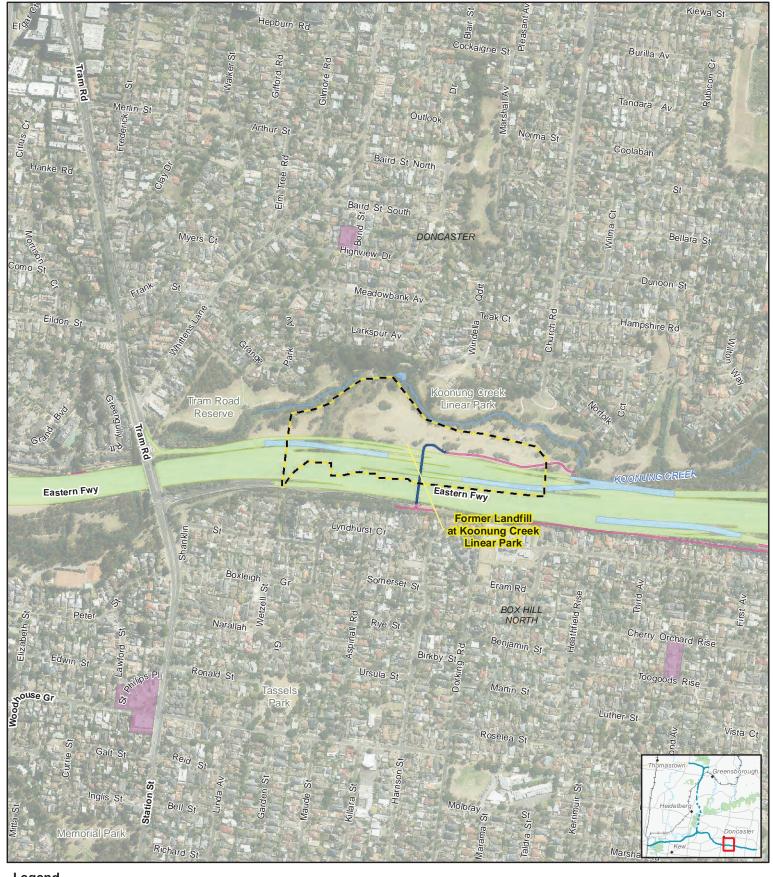




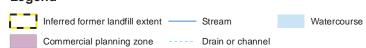
North East Link Project Environment Effects Statement (EES) Job Number 31-35006 28 Feb 2019

Contaminated Sites Eastern Freeway (East 1/2)

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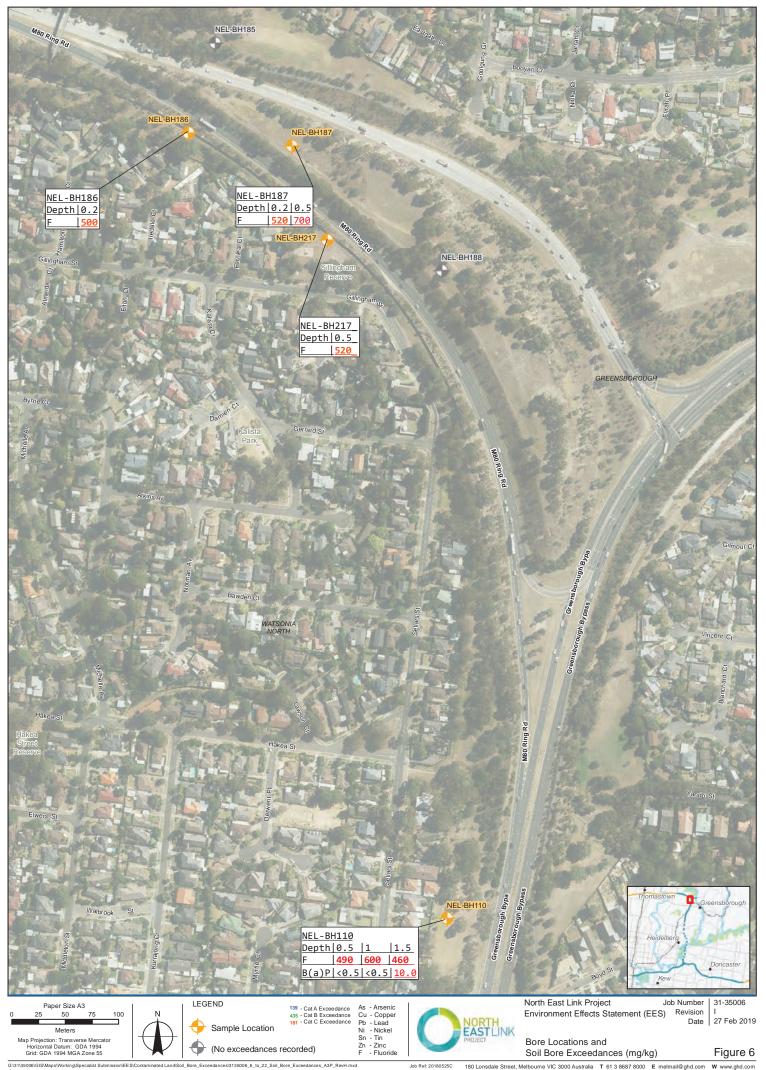




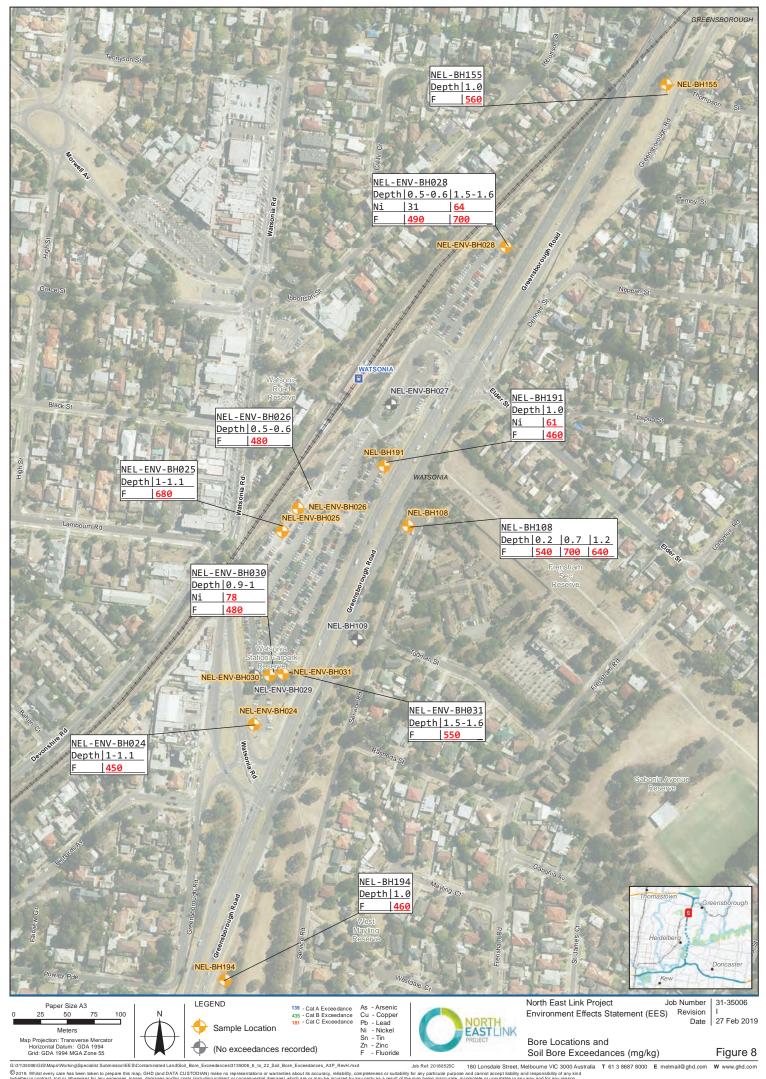
North East Link Project Environment Effects Statement (EES) Job Number 31-35006 Revision 28 Feb 2019

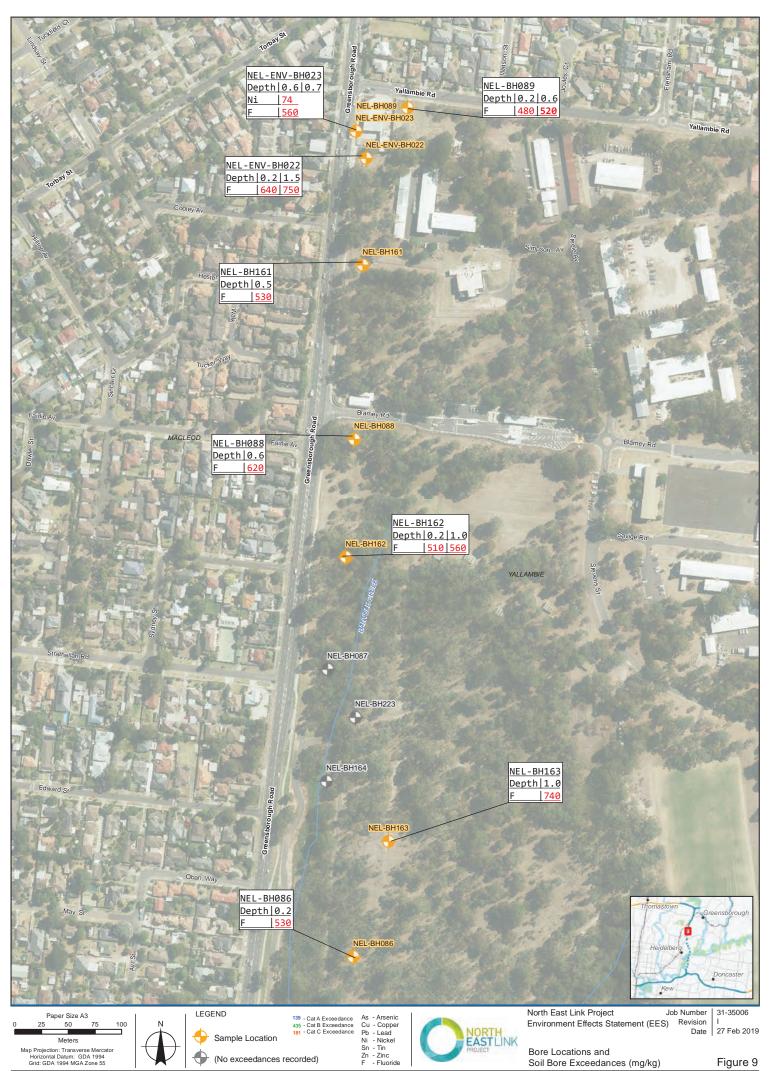
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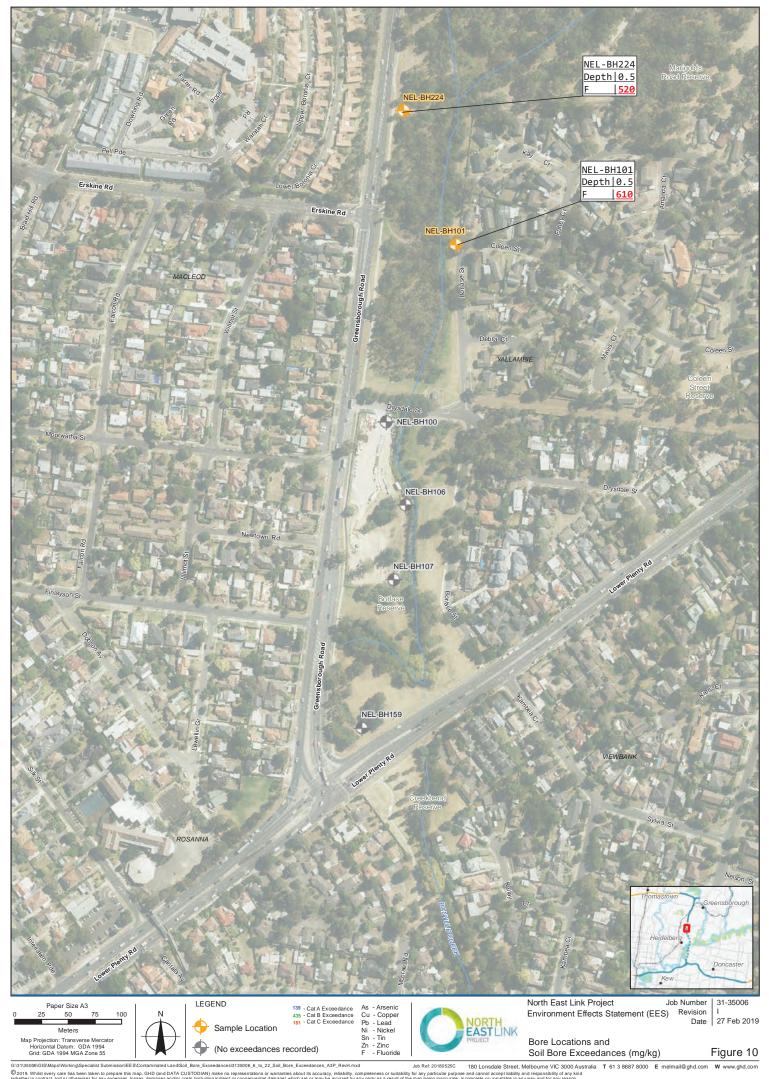
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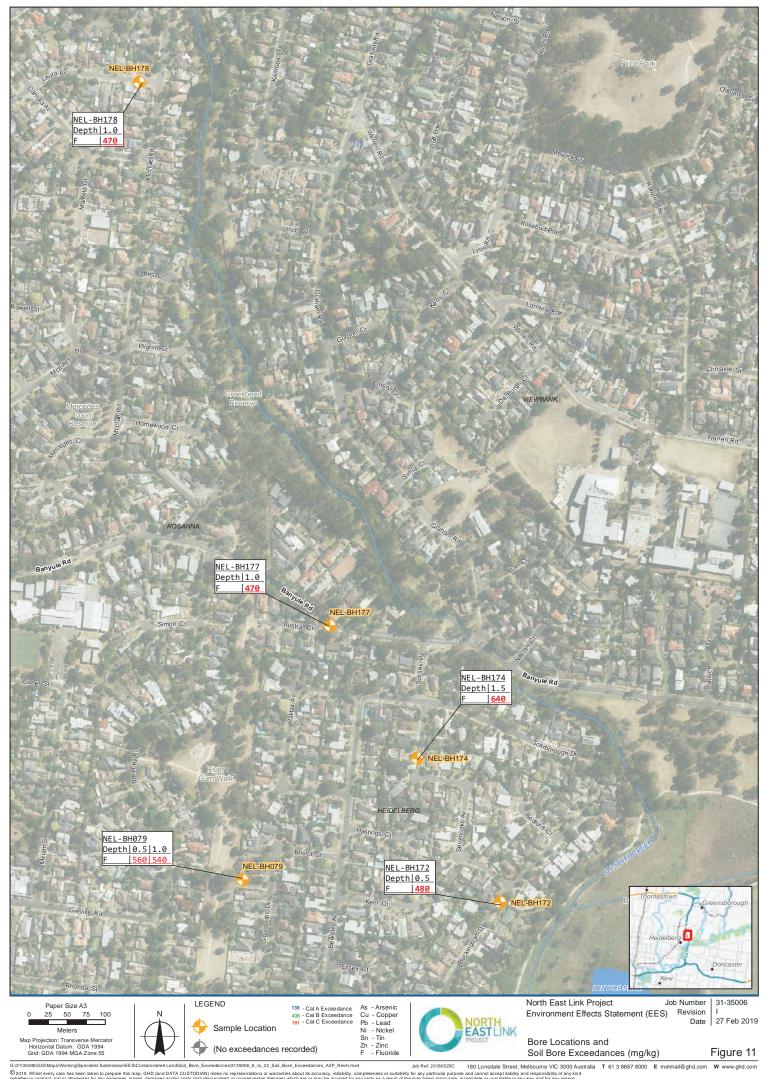






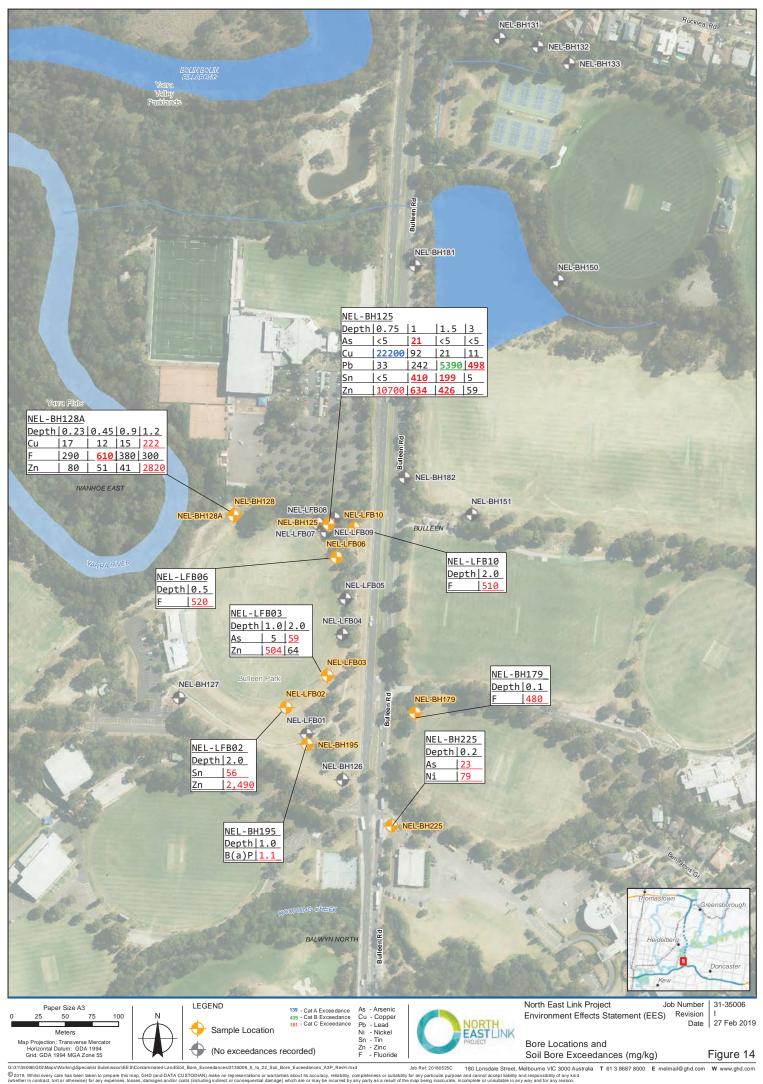








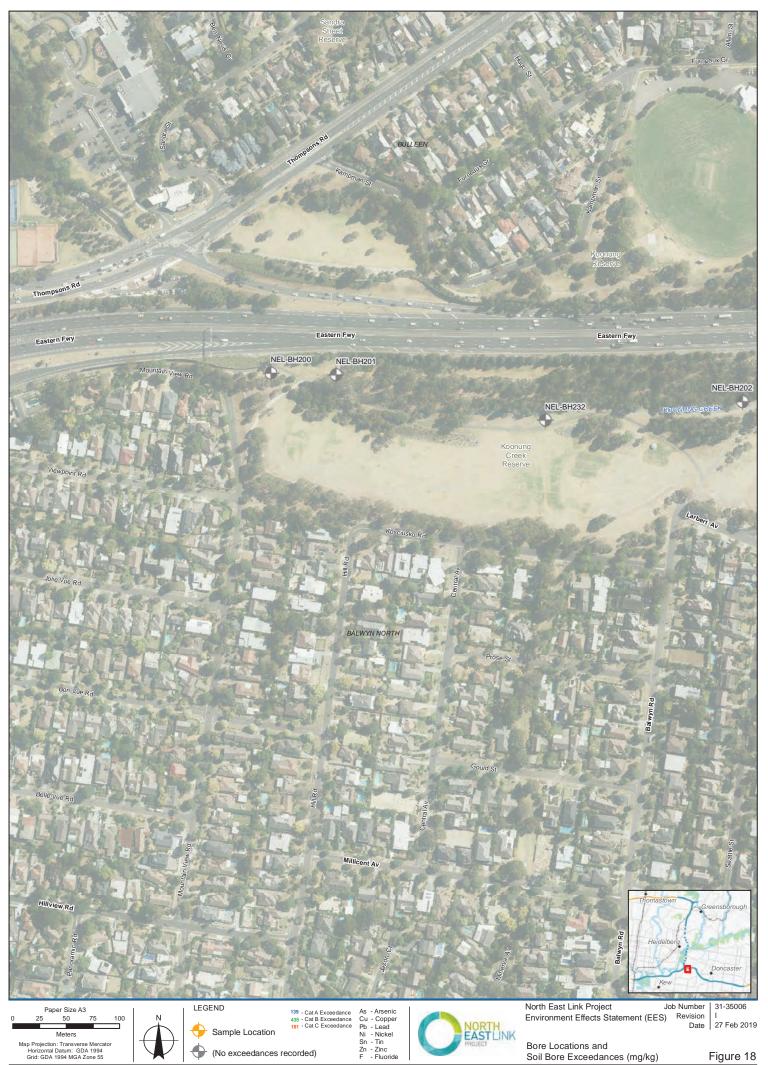


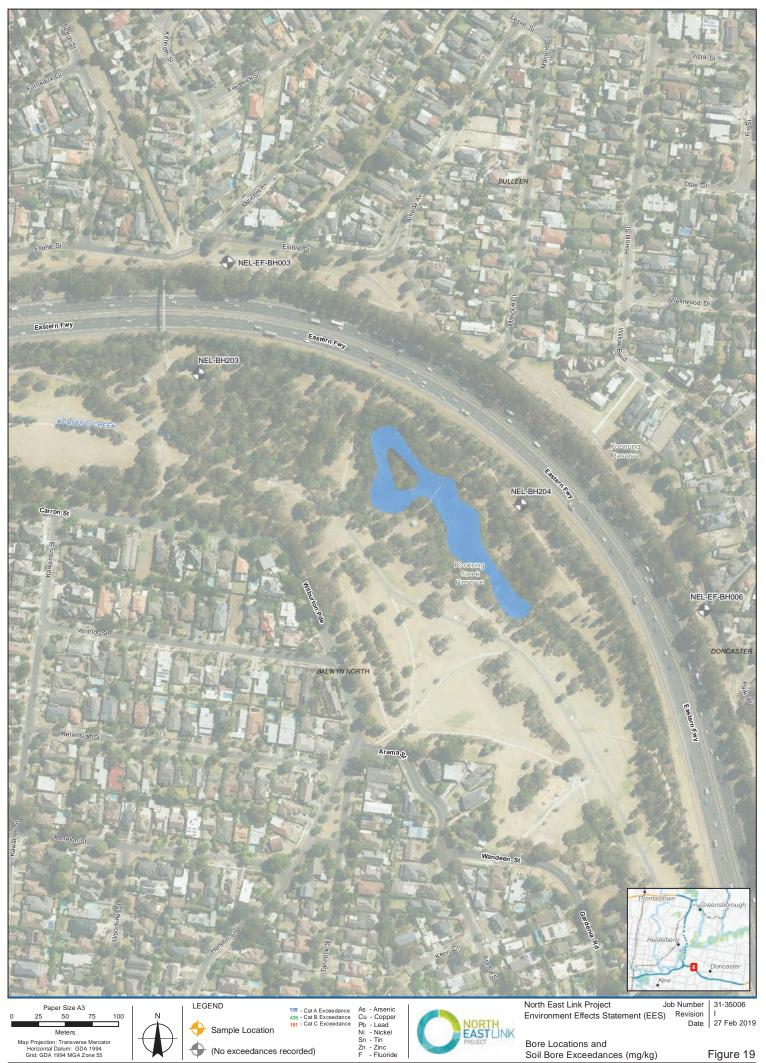




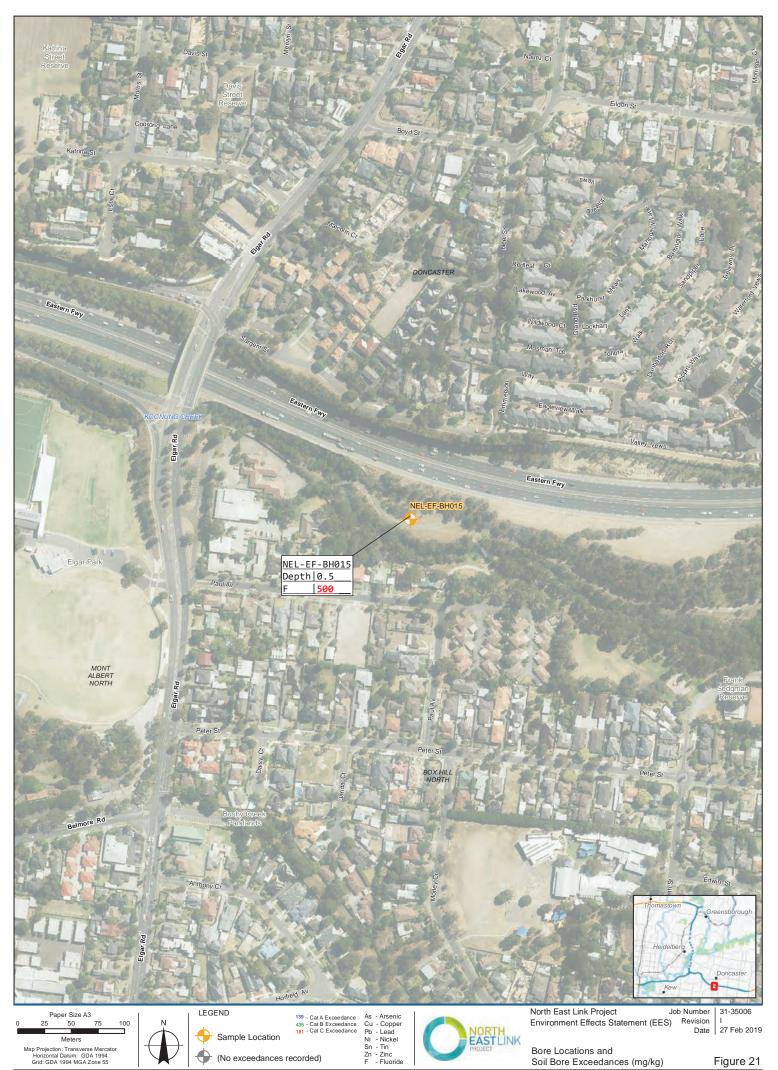




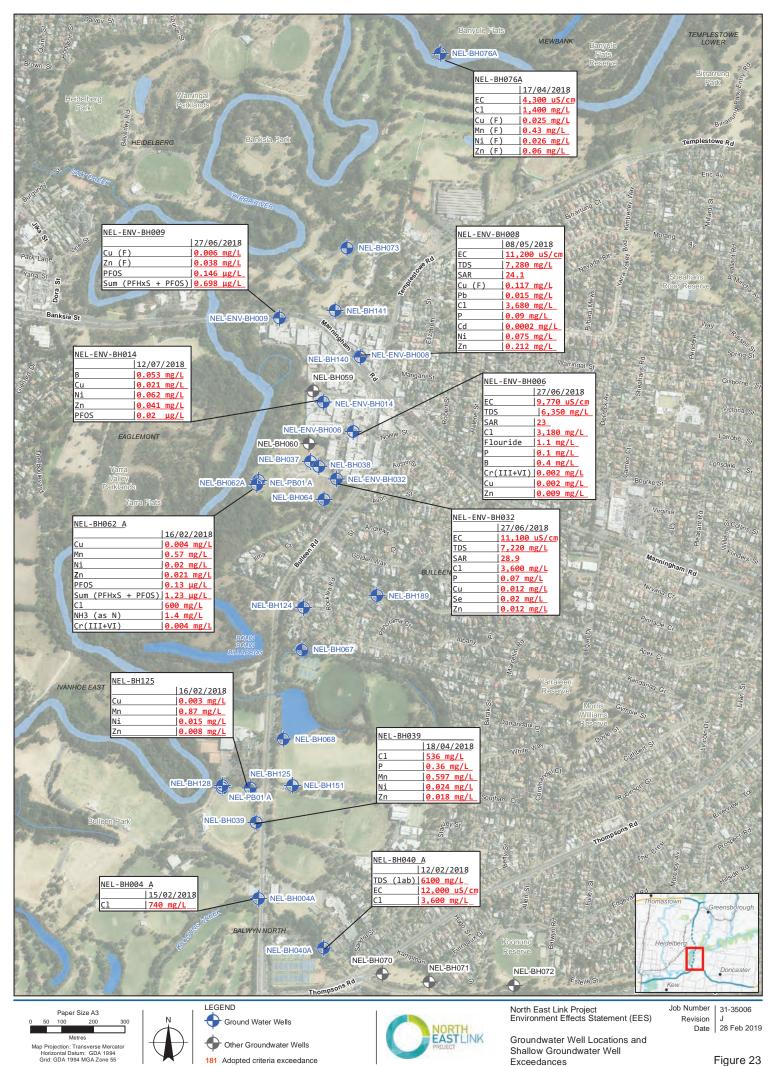


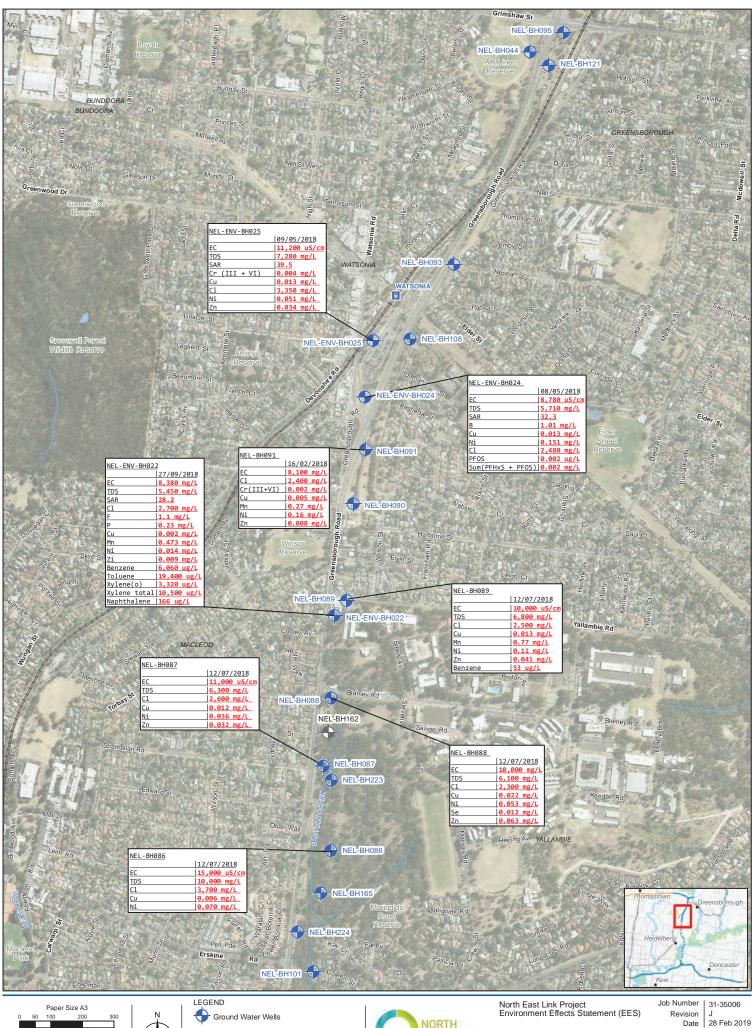


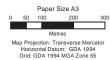










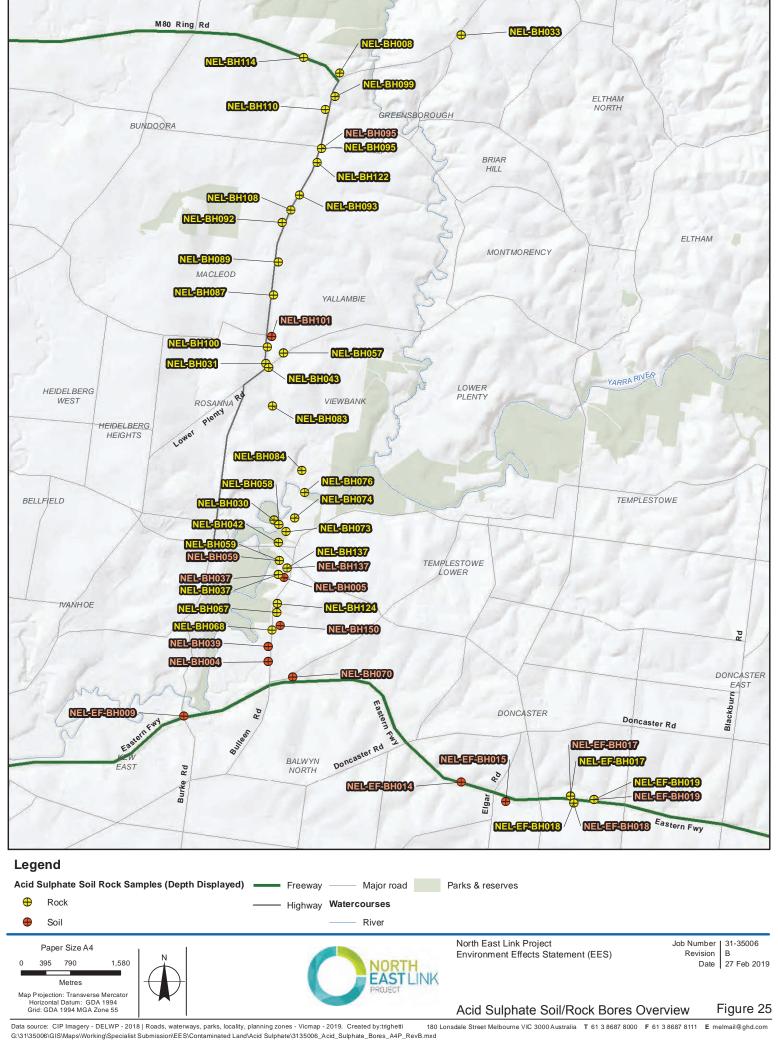


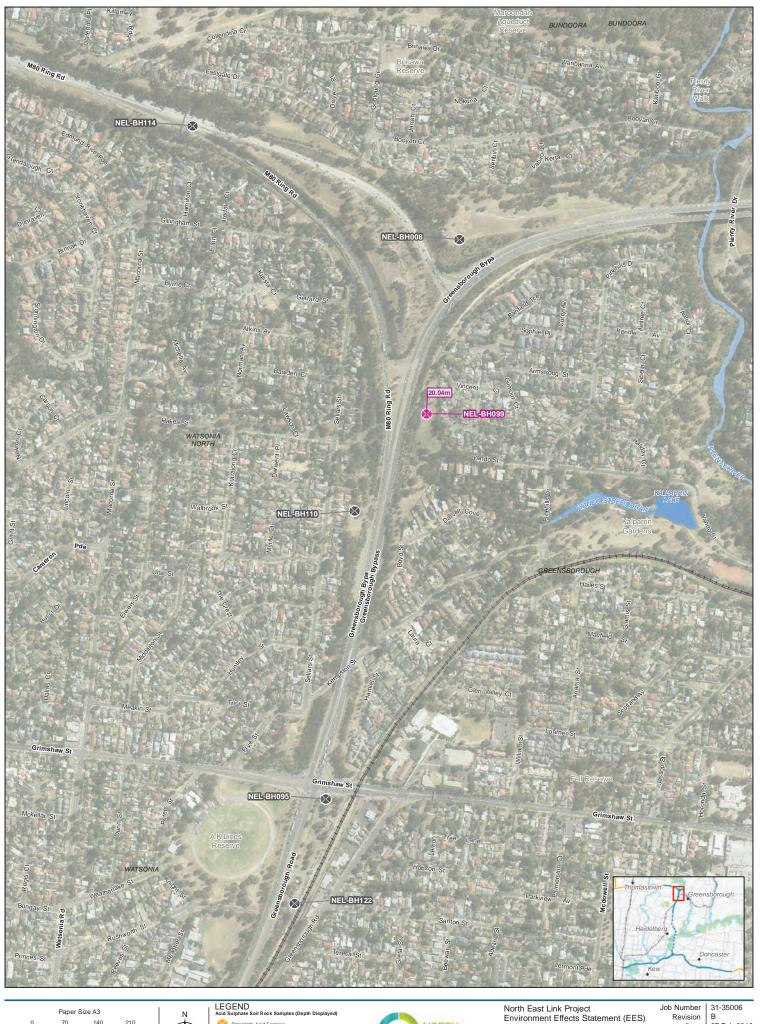






Groundwater Well Locations and Shallow Groundwater Well Exceedances





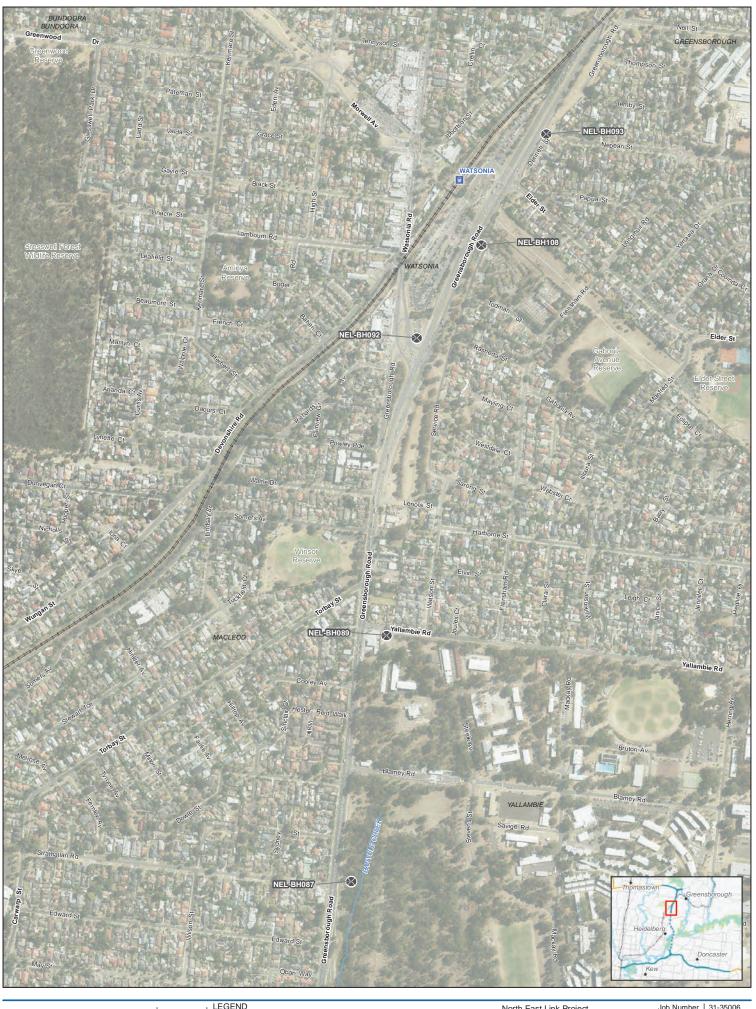






Job Number | 31-35006 Revision | B Date | 27 Feb 2019

Acid Sulfate Soil and Rock











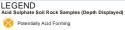
Job Number | 31-35006 Revision | B Revision B Date 27 Feb 2019

Acid Sulfate Soil and Rock





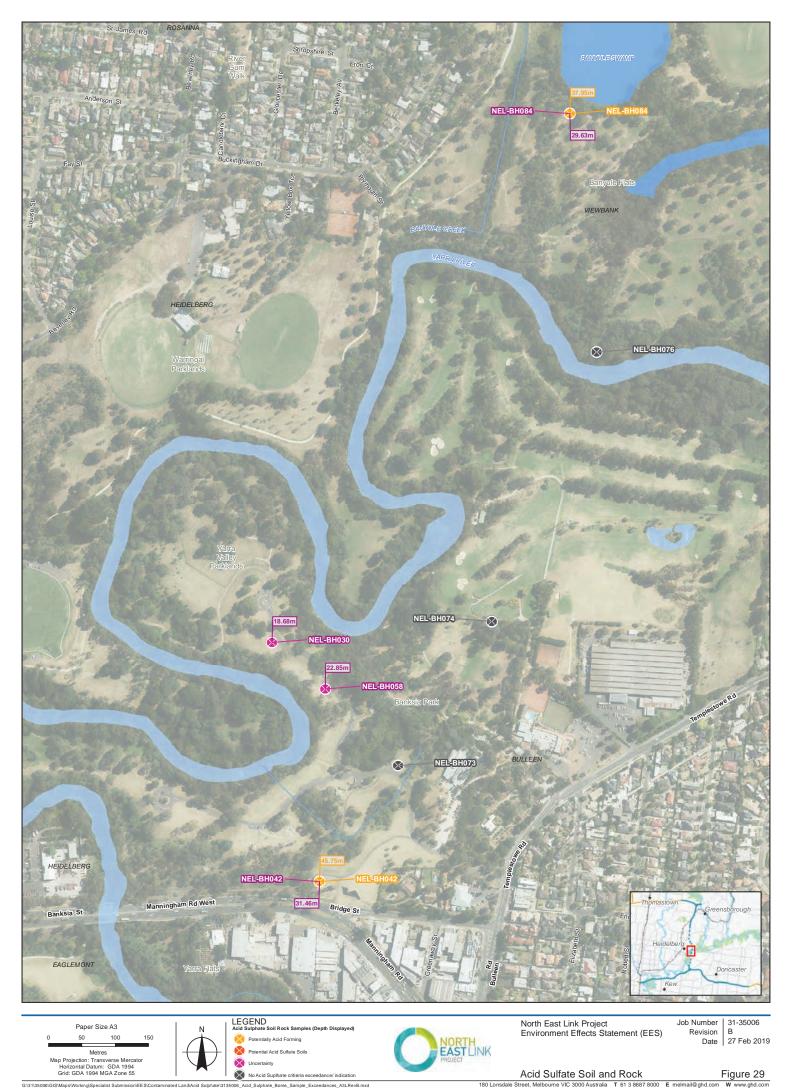


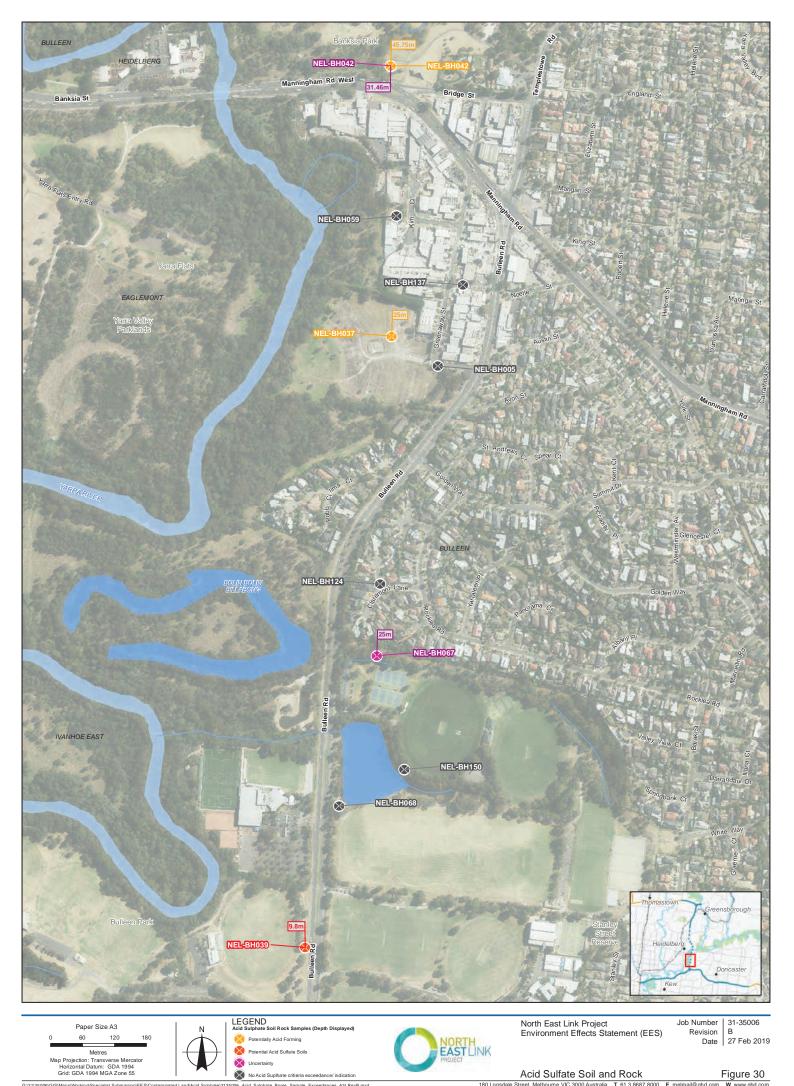




Job Number | 31-35006 Revision | B Date | 27 Feb 2019

Acid Sulfate Soil and Rock









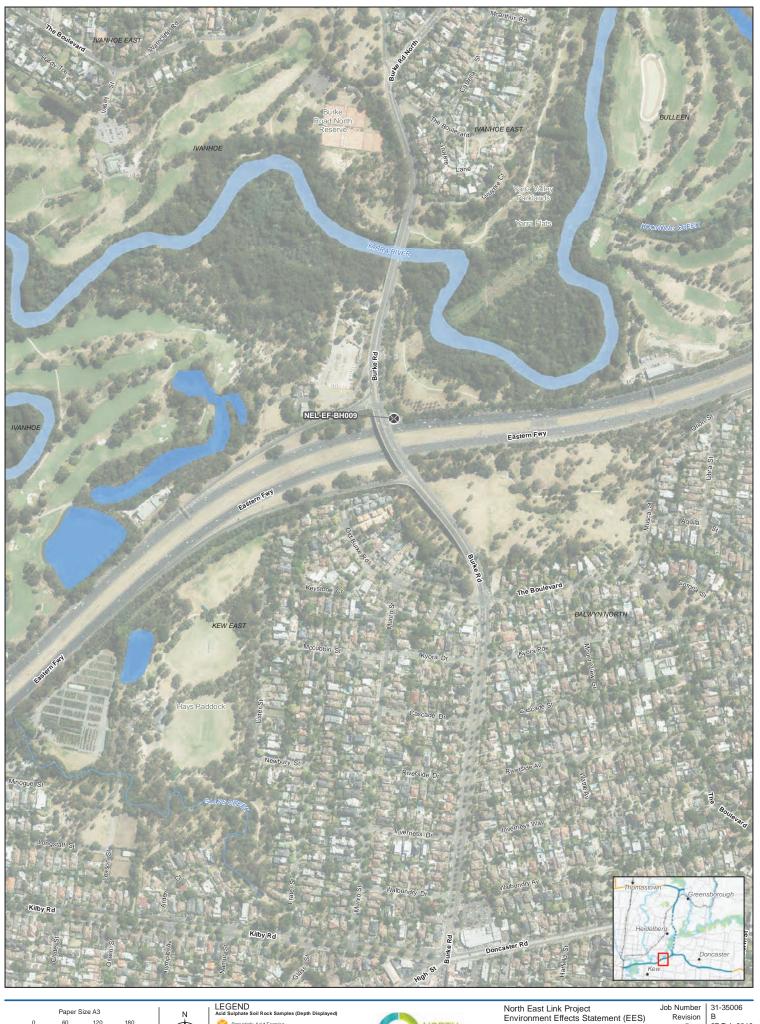






Job Number | 31-35006 Revision | B Date | 27 Feb 2019

Acid Sulfate Soil and Rock











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Appendix B – Historical aerial photographs

Available on request

Appendix C – Aerial photograph interpretation

Interpretation of aerial photographs

• Refer to Section 6.1.3 for further discussion

Review of historical aerial photographs: project boundary

Photograph	Observations
Date: 23 July 1946 & 2 October 1947 Photo: Ringwood 849A1B, Yan Yean 839C3B & 839C3D Source: Photo Mosaic, DELWP	Land uses within the project boundary and surrounding area include rural residential, farm, orchards, vacant land and Simpson Barracks (established in 1940). Two sites that may have been used for industrial activities were observed: at the corner of Bridge Road and Bulleen Road, and at Rocklea Road in Bulleen. It is unclear what activities occurred at the Bridge Road/Bulleen Road site but it appears likely to have been used for rural residential and not a commercial or industrial use. The Rocklea Road site appears to be a quarry and associated building with a large chimney (possible brickworks).

Review of historical aerial photographs: Watsonia Rail Area

Photograph	Observations
Date: 2 October 1947 Photo: Yan Yean 839C3B Source: Photo Mosaic, DELWP	The Hurstbridge rail line alignment (prior to duplication and upgrade) is present, while the majority of the surrounding areas are vacant. Commercial/industrial type structures are present at the existing Watsonia Road and Devonshire Road intersection.
Date: circa 1956 Source: SitePics	The surrounding area north and east of the existing Watsonia railway station appear unchanged from the 1947 aerial photograph. On the western side of Watsonia Road between Lambourn Road and Grace Street, several industrial/commercial properties have been developed, potentially including a wood yard. Land to the west beyond Watsonia Road is developed with
Date: 12 April 1967 Source: SitePics	residential properties. The area has been extensively developed with residential and commercial properties. A car yard is visible at 33 Richard Ave (residential units in 2018). A likely fuel service station is present at 345 Greensborough Road next to a car retailer (the same fuel service station structure was observed during a site visit in February 2018, although the site was no longer used as a fuel service station). A possible wood yard is present on the site of the existing BP fuel service station at the intersection of Watsonia Road and Grace Street. A carpark is visible adjacent to the Watsonia railway station followed by a fuel service station to the south, adjacent to the train line. The service station includes buildings that may represent a canopy, shopfront and workshop/carwash.
Date: 2 February 1976 Source: SitePics	The surrounding area appears unchanged from the 1967 aerial photograph. However, the wood yard in the 1967 aerial photograph at the intersection of Watsonia Road and Grace Street has been replaced in 2018 with what appears to be a fuel service station (BP service station site). A wood yard is located on the western side of the rail alignment (at the site of the existing wood yard) and a portion of the land opposite Watsonia railway station across Greensborough Road has been developed into a car park.
Date: 11 January 1984 Source: SitePics	The surrounding area appears unchanged from the 1976 aerial photograph. However, Watsonia railway station has been upgraded, the Hurstbridge rail line lowered and duplicated and the level crossing on Watsonia Road has been removed. The fuel service station located at the southern end of the Watsonia railway station carpark is no longer present.
Date: 25 March 1994 Source: SitePics	The surrounding area appears unchanged from the 1984 aerial photograph except the intersection of Greensborough Road and Watsonia Road has been upgraded; the existing Watsonia railway station car park is present (except the southern end of the car park which was added in 2017). The car yard present in the 1967 aerial photograph at 33 Richard Avenue has been demolished, and the area is vacant.
Date: 11 December 2005 Source: SitePics	Largely unchanged from the 1994 aerial photograph. Residential properties at 33 Richard Avenue are present.
Date: 23 January 2014 Source: SitePics	Largely unchanged from the 2005 aerial photograph.

Review of historical photographs: Yallambie – Simpson Barracks Area

Photograph	Observations
Date: 2 October 1947 Photo: Yan Yean 839C3D Source: Photo Mosaic, DELWP	Land uses along Greensborough Road include rural residential, schoolhouse, agricultural/grazing, orchards, vacant land and Simpson Barracks (established in 1940).
Date: 18 January 1951 Source: SitePics	The area appears largely unchanged from the 1947 aerial photograph. Land north of Yallambie Road has been developed, potentially with residential properties.
Date: 9 January 1966 Source: SitePics	The surrounding area has been extensively developed with residential properties. A fuel service station located on the intersection of Greensborough Road and Yallambie Road is present (fuel station site in 2018) and several residential sized structures are visible to the east of the service station (on Simpson Barracks land).
	There appears to be construction activity occurring at the schoolhouse (MacLeod Primary School) located on the western side of Greensborough Road.
Date: 17 February 1976 Source: SitePics	The area appears largely unchanged from the 1966 aerial photograph. Construction/extension of MacLeod Primary School site completed. Land located on the southern end of Simpson Barracks adjacent to the Greensborough Road and Drysdale Street intersection has been developed with residential properties.
Date: 11 January 1984 Source: SitePics	The area appears largely unchanged from the 1976 aerial photograph.
Date: 13 March 1990 Source: SitePics	The area appears largely unchanged from the 1984 aerial photograph.
Date: 11 December 2005 Source: SitePics	The area appears largely unchanged from the 1984 aerial photograph. Macleod Primary School had been demolished and replaced with residential properties.
Date: 23 January 2014 Source: SitePics	The area appears largely unchanged from the 2005 aerial photograph. The residential sized buildings located adjacent to the fuel service station on Yallambie Road have been demolished and the area is now vacant.

Review of historical photographs: Bulleen – Manningham Road and Bulleen Road area

Photograph	Observations
Date: 23 July 1946 Photo: Ringwood 849 AIB Source: Photo Mosaic, DELWP	Land in the vicinity of the Bulleen Road and Manningham Road intersection appears to be used primarily for agricultural purposes. Several farmhouse type structures are present in the area of the existing cul-desac on Kim Close. Large-scale soil disturbance and likely quarry is visible in what would become the Bulleen Road, Claremont Lane and Rocklea Road area in 2018. Land use is consistent with clay pit and brick works (chimney visible).
Date: circa 1956 Source: SitePics	The area has been further developed with residential properties and commercial/light industrial structures. However, most of the land remains vacant. The property, which in 2018 would be 22 Manningham Road W, has been developed with commercial/light industrial structures. Drums and containers can be seen placed on the eastern site boundary (information obtained from <i>The Age</i> dated 11 October 1967 indicated the site may be used for vegetable processing). There appears to be large amount of materials, likely to be timber, at 206 Bulleen Road.
Date: 11 March 1964 Source: SitePics	Land on the eastern side of Bulleen Road has been extensively developed with residential properties. The area between the existing Greenaway Street and Bulleen Road has been further developed with commercial/light industrial buildings. Construction activity also appears to be occurring near Manningham Road W, with vehicles scattered around the sites. A fuel service station is present at 14 Manningham Road W. The fuel service station present in 2018 on the north-west corner of Manningham Road and Bulleen Road is visible. Extensive soil disturbance is visible within the former drive in area, located at the southern end of the Bulleen Industrial Precinct.

Photograph	Observations
Date: 29 February 1972 Source: SitePics	Agricultural activities continue in the area between the existing Kim Close and Yarra River.
	The Bulleen Drive-in appears fully constructed.
	Barrels and containers visible in 1956 and 1964 aerial photographs (on what in 2018 would be the 22 Manningham Road W property) had been removed and the site now appears to be a car dealership.
	The site at 6 Manningham Road W (existing Bulleen Art & Garden) is developed and appears to be a plant nursery.
	Fuel service stations are visible at 14 Manningham Road W and 178 Bulleen Road. The service stations present in 2018 at 208 Bulleen Road, 17 Manningham Road and 39 Bridge Street are also present.
	The site at 26–28 Greenway Street appears to be used for supplying soils/concrete mixing (same as the existing land use).
	Unidentified stockpile of materials is visible at the existing 48, 50, 207, 209 and 235 Bulleen Roads, and at 20–22 Greenway Street.
	Likely quarry visible in the existing Bulleen Road, Claremont Lane and Rocklea Road area is no longer visible and the area has been developed for residential land use.
Date: 17 March 1984 Source: SitePics	Agricultural land use is no longer evident. The farmhouse type structures near the Yarra River present in the 1946 aerial photographs have been demolished and replaced with commercial/light industrial structures (the existing 2–7 Kim Close, Bulleen).
	The majority of the warehouse structures located along Manningham Road W appear to be similar to structures present in 2018, except 10 Manningham Road W. The fuel service station located at 14 Manningham Road W present in the 1964 and 1972 aerial photographs appears to be a car dealership.
	An unidentified stockpile of materials is visible at 10 Manningham Road (in 2018 Heidelberg Hire Service and Kendon Auto Electrical & Mechanical) and neighbouring 13 Kim Close (demolition materials, in 2018 Pace Demolitions). A stockpile of materials is also present on southern end of 26 Manningham Road W.
Date: 5 May 1994 Source: SitePics	The surrounding area appears unchanged from the 1984 aerial photograph.
Source. Silerics	Commercial/industrial buildings present at 41–47 Greenway Street with materials placed in the yard behind the buildings.
	The Bulleen Drive-in no longer appears active.

Photograph	Observations
Date: 11 December 2005 Source: SitePics	The surrounding area appears unchanged from the 1994 aerial photograph except commercial/light industrial structures are present at 31–33 Greenway Street. 12–16 Greenway Street appears to be a wood yard.
	The stockpiled materials visible at 41–47 Greenway Street in the 1994 photograph have been removed.
	The fuel service station present on 178 Bulleen Road in 1972 and 1994 photographs had been demolished and replaced with a car park and residential-style building.
	20 Manningham Road in the 1984 and 1994 photographs has been replaced by what appears to be a car wash.
Date: 23 January 2014 Source: SitePics	The surrounding area appears unchanged from the 2005 aerial photograph. Nursery operations extend to the rear of 10–24 Manningham Road W buildings.

Review of historical photographs – the Eastern Freeway

Photograph	Observations
Date: 1931 Source: LotSearch	There appears to be a mixture of residential and commercial/industrial structures near the future Eastern Freeway and Hoddle Street intersection. Commercial/light industrial structures are also present on the future Eastern Freeway southern boundary near Maugie Street. The former City of Melbourne Quarry is present at the corner of the existing Ramsden Street and Yambla Street.
	Structures associated with the former Venereal Disease Clinic are present north of the future Eastern Freeway at Yarra Bend Road. Large structures are on the southern side of the future freeway near Yarra Boulevard. It is not clear if these structures are associated with the Kew Asylum located further south.
	Other land uses within the remaining area surrounding the existing Eastern Freeway include farms, orchards, residential properties, farmhouses and vacant land.
Date: 1945 Source: LotSearch	The majority of the area surrounding the existing Eastern Freeway appears unchanged from the 1931 aerial photograph. However, the area between the existing Willow Grove and Belford Road, and Kilby Road near Glass Creek in Kew East has been developed with residential properties. There also appears to be a fill site at the existing Musca Street Reserve extending across the Eastern Freeway towards the Yarra River. A golf course is present on the La Trobe Golf Club site north of the Yarra River.
Date: 1951 Source: LotSearch	The majority of the area surrounding the existing Eastern Freeway appears unchanged from the 1945 aerial photograph. However, further residential development has occurred in the Willow Grove and Belford Road in Kew East area, and the Green Acres Golf Club is present.
Date: 1960 – 1962 Source: LotSearch	Land use surrounding the Eastern Freeway near Hoddle Street appears unchanged from the 1951 aerial photographs. The remaining area along the existing Eastern Freeway has been further developed with residential properties, including land adjacent to the existing The Boulevard and Old Burke Road where potentially fill material was observed in the 1945 and 1951 aerial photographs. Land disturbance is also observed north of the Yarra River bounded by Burke Road and The Boulevard. Ground disturbance is evident at the future Eastern Freeway near the Doncaster Road and High Street intersection in Balwyn North, and warehouses are present on the existing Joseph Street in Blackburn North.

Photograph	Observations
Date: 1968 Source: LotSearch	Land use surrounding the future Eastern Freeway near Hoddle Street appears unchanged from the 1960–1962 aerial photographs. The remaining area along the future Eastern Freeway has been further developed with residential properties. The Royal Talbot Centre and Guide Dog Centre in Kew are present north of the future freeway near Yarra Boulevard. A water dam adjacent to the existing Eastern Freeway located on Kew Golf course is present. The former City of Camberwell landfill is also visible east of Burke Road.
	Ground disturbance is visible on Burke Road, adjacent to the Kew Golf Club, potentially a sand/gravel supplier.
	Ground disturbance at the future Eastern Freeway near Doncaster Road and High Street intersection in Balwyn North that was evident in the 1960 aerial photograph is no longer evident.
	The existing substation at Tram Road, Box Hill North is visible.
	Ground disturbance is also observed on the existing Koonung Creek Linear Park and may represent a landfill area.
Date: 1974 – 1975 Source: LotSearch	Construction activities for the Eastern Freeway between Hoddle Street and Bulleen Road are evident. Commercial/industrial buildings located within the Eastern Freeway footprint are no longer present.
	The remaining area along the Eastern Freeway has been further developed with residential properties.
Date: 1978 – 1979 Source: LotSearch	The Eastern Freeway between Hoddle Street and Bulleen Road is completed. There appears to be a mound of spoil placed near the section of the Eastern Freeway that crosses the Yarra River near the Yarra Boulevard; bounded by Eastern Freeway (north) and the Yarra River (south).
	Construction activities for the Eastern Freeway are evident between Bulleen Road and Doncaster Road.
Date: 1984 – 1985 Source: LotSearch	The land use in the area surrounding the Eastern Freeway between Hoddle Street and Bulleen Road appears unchanged from the 1978–1979 aerial photographs.
	The Eastern Freeway between Bulleen Road and Doncaster Road is operating
Date: 1991 Source: LotSearch	Land use in the area surrounding the Eastern Freeway appears unchanged from the 1984–1985 aerial photographs.

Photograph	Observations
Date: 2000 – 2005 Source: LotSearch	The former Fairhaven Venereal Disease Clinic present in the 1931 aerial photograph, which later converted to HM Prison Fairlea is no longer evident and the area appears to be parkland. Land north of Willsmere Park has been further developed with residential properties. The Eastern Freeway between Doncaster Road and Springvale Road is operating. No major changes are observed for the remaining area of the Eastern Freeway.
Date: 2009 Source: LotSearch	Land use in the area surrounding the existing Eastern Freeway appears relatively unchanged from the 2000–2005 aerial photographs. An industrial building within the area bounded by Alexandra Parade E, Gray Street and Noone Street in Clifton Hill is not visible. Kilby Park Tree Farm in Kew East, and the Doncaster Park and Ride in Doncaster are evident.
Date: 2017 Source: LotSearch	The area surrounding the Eastern Freeway appears relatively unchanged from the 2009 aerial photographs. The area bounded by Alexandra Parade E, Gray Street and Noone Street in Clifton Hill is developed with residential properties.

Landfills

Review of historical photographs – former Camberwell landfill

Photograph	Observations
Date: 1960 Source: DELWP	The Camberwell landfill appears to be undeveloped, vacant land/open parkland. There is also vacant land/open parkland to the north, with the Yarra River approximately 100 metres north of the Camberwell landfill. Residential properties line the south, east and west of the Camberwell landfill, and parkland to the north.
Date: 1967 Source: DELWP	The majority of the Camberwell landfill appears to not be vegetated. This may be due to earthworks at the Camberwell landfill, dry vegetation or poor aerial image quality. Earthworks appear evident in the north-eastern area of the Camberwell landfill. The surrounding area remains largely unchanged from the 1960 aerial photograph.
Date: 1969 Source: DELWP	The south-western area of the Camberwell landfill appears to be mostly vegetated, with no evidence of earthworks. Earthworks are evident in the north-east of the landfill, where the current Freeway Public Golf Course is located (these are referred to as two separate landfills within this report due to their physical separation). The surrounding area remains largely unchanged from the 1967 aerial photograph.
Date: 1971 Source: DELWP	The majority of the Camberwell landfill and areas to the north are flooded from the Yarra River.
Date: 1972 Source: DELWP	Flood waters that were evident in the previous aerial photograph are no longer evident. The south-western area of Camberwell landfill appears to be undeveloped, vacant land/open parkland. Earthworks are evident in the north-east of the Camberwell landfill, where the current Freeway Public Golf Course is located. The remainder of Camberwell landfill appears largely unchanged.
Date: 1975 Source: DELWP	Construction of the Eastern Freeway is apparent, running east-west through the Camberwell landfill. Earthworks are evident on the south side of the freeway footprint in the current Muscat Street Reserve. Earthworks in the north-east area of the Camberwell landfill appear to have reduced, with part of the area revegetated.
Date: 1979 Source: DELWP	Construction of the Eastern Freeway appears complete. Earthworks do not appear to be occurring on the Camberwell landfill site, except possibly in a small area south of the Eastern Freeway, where revegetation has not occurred. The remainder of the Camberwell landfill is revegetated.
Date: 1982 Source: DELWP	The Camberwell landfill appears to be parkland/open space with no earthworks evident. The north-east area of the landfill is beginning to resemble a golf course. The surrounding area appears generally unchanged from the 1979 aerial photograph.

Photograph	Observations
Date: 1991 Source: DELWP	The surrounding area appears generally unchanged from the 1982 aerial photograph.
Date: 2000 Source: 2017 Google Inc.	The surrounding area appears generally unchanged from the 1991 aerial photograph.
Date: 2009 Source: 2017 Google Inc.	A building has been constructed just north of the Eastern Freeway on the golf course. Otherwise the surrounding area appears generally unchanged from the 2000 aerial photograph.
Date: 2017 Source: 2017 Google Inc.	The surrounding area appears generally unchanged from the 2009 aerial photograph.

Review of historical photographs – former Bulleen Park Landfill and Freeway Public Golf Course East Landfill

Photograph	Observations			
Date: 1954 Source: DELWP	The area appears to be all vacant land. No buildings are evident, with only one building evident within proximity to the area.			
Date: 1958 Source: DELWP	Evidence of vegetation removal/potential earthworks is evident in the west area of Bulleen Park where the western sports fields are currently located. The surrounding area remains largely vacant land.			
Date: 1960 Source: DELWP	Earthworks are clearly evident on the western side of the Bulleen Park and the western sports fields area remains un-vegetated with potential earthworks occurring. There also appears to be a small pond on the eastern side of Bulleen Park. The future Freeway Public Golf Course area and surrounding area appears unchanged from the 1958 aerial photograph.			
Date: 1962 Source: DELWP	A number of sporting ovals have been constructed to the south-west of Bulleen Park. Otherwise Bulleen Park and the surrounding area remain largely unchanged from the 1960 aerial photograph.			
Date: 1963 Source: DELWP	The earthworks in the Bulleen Park area have increased to cover the north-western half of this area. Major earthworks are also evident across the Freeway Public Golf Course area. The surrounding area remains largely unchanged from the 1962 aerial photograph.			
Date: 1967 Source: DELWP	The earthworks at Bulleen Park have decreased substantially, with much of the area revegetated. Part of the western edge of the Freeway Public Golf Course looks to still have earthworks occurring and is not revegetated. Earthworks are now apparent on the east area of the western sports fields at Bulleen Park. There are a few more buildings to the east of Bulleen Park, but otherwise the surrounding area remains largely unchanged from the 1963 aerial photograph.			
Date: 1968 Source: DELWP	Earthworks continues in the western sports fields area of the Bulleen Park and on the western part of the Freeway Public Golf Course. Otherwise the area is largely unchanged from the 1967 aerial photograph.			
Date: 1969 Source: DELWP	The western sports fields area has been revegetated with no earthworks apparent. Most of the Freeway Public Golf Course area has also been revegetated. Otherwise the area is largely unchanged from the 1968 aerial photograph.			
Date: 1972 Source: DELWP	All areas of Bulleen Park are almost completely re-vegetated. Some additional sporting fields have been established to the east of Bulleen Park and the area to the north of the Bulleen Oval within the park is undergoing earthworks. Extensive earthworks are also apparent south of the western sporting fields. Otherwise the surrounding area is largely unchanged from the 1969 aerial photograph.			

Photograph	Observations
Date: 1979 Source: DELWP	Bulleen Oval has been established in Bulleen Park. Evidence of the Freeway Public Golf Course holes is also apparent. A building has been built on the adjacent area to the north of Bulleen Oval. Otherwise the surrounding area is largely unchanged from the 1972 aerial photograph.
Date: 1991 Source: DELWP	Bulleen Park remains largely unchanged, except there is a building in the south-west of the Bulleen Oval in Bulleen Park and additional sports ovals have been established in the western sports fields area. A large area to the north-east of Bulleen Park across Bulleen Road looks to be flooded, as does the Yarra River to the north-west. Otherwise the surrounding area is largely unchanged from the 1979 aerial photograph.
Date: 2000 Source: Google Inc.	The area is largely unchanged from the 1991 aerial photograph, with the exception there is no evidence of flooding in the areas identified previously.
Date: 2009 Source: Google Inc.	Largely unchanged from the 2000 aerial photograph.
Date: 2017 Source: Google Inc.	Largely unchanged from the 2009 aerial photograph.

Review of historical photographs – former quarry located at the M80 Ring Road/Greensborough Bypass

Photograph	Observations	
Date: 1931 Source: DELWP	The Greensborough quarry appears to be open space. There is little development in the surrounding areas.	
Date: 1945 Source: DELWP	There appears to be some earthworks undertaken across the majority of the Greensborough quarry. The surrounding area appears generally unchanged.	
Date: 1951 Source: DELWP	Earthworks are still evident in the same area of the Greensborough quarry. There is minimal development of the surrounding land.	
Date: 1956 Source: DELWP	Earthworks at the Greensborough quarry have increased in area, with much of the vegetation removed. The surrounding area remains predominantly parkland/open space.	
Date: 1962 Source: DELWP	The earthworks area appears to be partially revegetated. The surrounding area has more buildings established but is predominantly open space.	
Date: 1968 Source: DELWP	More of the earthworks area appears to have been revegetated. Residential development is beginning in the south and to the south-east the Greensborough quarry. Areas to the north and west of the quarry are largely unchanged from the 1962 aerial photograph.	
Date: 1974 Source: DELWP	The earthworks area of the Greensborough quarry appear to be fully revegetated. Extensive residential development has occurred to the north north-east and south-west.	
Date: 1987 Source: DELWP	The Greensborough quarry is largely unchanged from the 1974 aerial photograph. Major earthworks are evident to the south and east of the quarry for the construction of the Eastern Freeway. Further residential development has occurred in the surrounding land.	
Date: 1991 Source: DELWP	Earthworks to the south-east of the Greensborough quarry associated with the Easter Freeway construction appear to be slightly encroaching on the quarry, with some earthworks through the centre of the quarry. The construction of the Eastern Freeway looks complete. Otherwise the surrounding area appears largely unchanged from the 1987 aerial photograph.	
Date: 2005 Source: 2017 Google Inc.	The M80 Metropolitan Ring Road has been constructed through the centre of the former Greensborough quarry. The area otherwise remains a vegetated open space, with residential development in surrounding areas.	
Date: 2017 Source: 2017 Google Inc.	Largely unchanged from the 2004 aerial photograph.	

Review of historical photographs – former landfill located at AK Lines Reserve

Photograph	Observations			
Date: 1956 Source: DELWP	The future AK Lines Reserve site is open space. There are some, sparsely positioned, residential properties located to the west and north-east of the reserve. The areas to the south and east appear to be vacant land.			
Date: 1960 Source: DELWP	Major earthworks are apparent at the reserve, particularly in the western area. Some buildings have been built in the north-west and south of the reserve. Residential development has occurred to the west, south-west and north-east of the reserve.			
Date: 1962 Source: DELWP	Earthworks are evident across the entire reserve. The surrounding areas are largely unchanged from the 1960 aerial photograph.			
Date: 1963 Source: DELWP	Earthworks continue at the reserve. The surrounding area appears unchanged from the 1962 aerial photograph.			
Date: 1966 Source: DELWP	The reserve is being constructed into a sporting oval. The surrounding area appears unchanged from the 1963 aerial photograph, except there appears to be some construction immediately to the south.			
Date: 1967 Source: DELWP	The reserve is now a sporting oval, with revegetation underway. The surrounding area appears unchanged from the 1963 aerial photograph, but the area to the south has also been constructed into an oval/sports field.			
Date: 1979 Source: DELWP	The reserve is largely unchanged from the 1967 aerial photograph, with the exception of the removal of some buildings in the north-east of the reserve and some construction to the east, presumably for the construction of the Greensborough Bypass.			
Date: 1987 Source: DELWP	Largely unchanged from the 1979 aerial photograph.			
Date: 1991 Source: DELWP	Largely unchanged from the 1987 aerial photograph, with the exception that the Greensborough Bypass construction is complete.			
Date: 2005 Source: Google Inc.	Largely unchanged from the 1991 aerial photograph.			
Date: 2017 Source: Google Inc.	Largely unchanged from the 2005 aerial photograph.			

Review of historical photographs – former landfill located at Borlase Reserve

Photograph	Observations			
Date: 1951 Source: DELWP	The future Borlase Reserve appears to be vacant land/open green space. A few buildings are located to the south, and residential areas further to the south-west (approximately 500 metres). The remainder of the surrounding land appears to also be vacant land/farm land/open green space.			
Date: 1954 Source: DELWP	There appears to be some sort of land-division north of the reserve. There also appears to be a circular road or other marking with some vegetation that extends across the western and northern border of the reserve. Residential buildings in the surrounding area have increased since the 1951 aerial photograph.			
Date: 1962 Source: DELWP	Earthworks are evident in the south-western portion of the reserve indicating potential landfilling. The area has been extensively developed with residential and commercial properties to the east, south and west.			
Date: 1966 Source: DELWP	Earthworks are still evident and appear to cover a large portion of the reserve indicating landfilling. Residential development has increased slightly in surrounding areas.			
Date: 1972 Source: DELWP	The earthworks at the reserve appear to have ceased, with this area of the reserve revegetated. The surrounding area is largely unchanged from the 1966 aerial photograph.			
Date: 1984 Source: DELWP	The reserve is largely unchanged from the 1972 aerial photograph, with the exception of residential development to the north-east, which was previously parkland/open green space.			
Date: 1991 Source: DELWP	The reserve is largely unchanged from the 1983 aerial photograph, with the exception of some possible earthworks/clearing of vegetation to the north.			
Date: 2000 Source: Google Inc.	The reserve has been revegetated. The surrounding area is largely unchanged from the 1991 aerial photograph.			
Date: 2009 Source: Google Inc.	The buildings/structures to the north of the reserve have been removed. The surrounding area is largely unchanged from the 2000 aerial photograph.			
Date: 2017 Source: Google Inc.	Largely unchanged from the 2009 aerial photograph.			

Review of historical photographs – former Greythorn Landfill

Photograph	Observations			
Date: 1951 Source: DELWP	The area appears to be farmland or open green space. A dense line of vegetation, possibly a creek or river, runs to the north. The surrounding land appears to be predominantly vacant land, farmland or open green space.			
Date: 1956 Source: DELWP	Earthworks are apparent but it is not believed to be associated with landfilling as the Greythorn Landfill operated in the late 1970s. There has been a lot of residential development in the vicinity of the site.			
Date: 1960 Source: DELWP	Earthworks are still evident and new earthworks are also evident to the north-west. The surrounding area has been extensively developed with residential properties established in all directions.			
Date: 1968 Source: DELWP	Most of the area has been revegetated, with only a small portion in the south which remained cleared. The surrounding area is largely unchanged from the 1967 aerial photograph.			
Date: 1975 Source: DELWP	Vegetation around the river has been removed/cut back. The surrounding area appears unchanged from the 1967 aerial photograph.			
Date: 1978 Source: DELWP	Major earthworks are apparent across the whole Greythorn Landfill. The surrounding area appears unchanged from the 1975 aerial photograph.			
Date: 1979 Source: DELWP	Most of the cleared area identified in the 1978 aerial photograph has been revegetated. Areas to the north have been cleared presumably for the construction of the Eastern Freeway. Otherwise, the surrounding area appears unchanged from the 1978 aerial photograph.			
Date: 1984 Source: DELWP	All earthworks have ceased and the Greythorn Landfill has been revegetated. The construction of the Eastern Freeway is complete. Koonung Creek no longer flows in this area. Otherwise, the surrounding area is largely unchanged from the 1979 aerial photograph.			
Date: 1991 Source: DELWP	Largely unchanged from the 1987 aerial photograph.			
Date: 2000 Source: Google Inc.	The Eastern Freeway has been extended south of Doncaster Road. Otherwise, the sire and surrounding area is largely unchanged from the 1991 aerial photograph.			
Date: 2009 Source: Google Inc.	Largely unchanged from the 2000 aerial photograph.			
Date: 2017 Source: Google Inc.	Largely unchanged from the 2009 aerial photograph.			

Review of historical photographs – former quarry located near Rocklea Road and Yarraleen Place, Bulleen

Photograph	Observations			
Date: 1931 Source: DELWP	The Bulleen quarry and the surrounding area is open space.			
Date: 1951 Source: DELWP	Some earthworks are evident across the Bulleen quarry. There appears to be some buildings under construction to the west, across Bulleen Road. Otherwise, the surrounding land remains largely unchanged from the 1931 aerial photograph.			
Date: 1954 Source: DELWP	Quarrying is evident, particularly in the eastern half of the Bulleen quarry. There appears to be some buildings on the western half of the quarry where earthworks previously were evident in the 1951 aerial photograph. The surrounding land remains largely unchanged from the 1951 aerial photograph.			
Date: 1958 Source: DELWP	Quarrying is evident and extending to the south. The surrounding land remains largely unchanged from the 1954 aerial photograph.			
Date: 1962 Source: DELWP	Quarrying is still evident extending to the south and east. The surrounding land remains largely unchanged from the 1958 aerial photograph.			
Date: 1963 Source: DELWP	Quarrying is still evident extending to the south and east. The surrounding land use appears largely unchanged from the 1958 aerial photograph.			
Date: 1967 Source: DELWP	Quarrying has ceased. The quarry buildings have been removed and the quarry appears to have been partially backfilled or contoured and revegetated. Residential roads have been constructed to the north.			
Date: 1968 Source: DELWP	Residential roads are constructed over the former quarry area but the land remains vacant. A few residential properties are apparent to the north.			
Date: 1972 Source: DELWP	Residential buildings have begun to be developed at the location of the former quarry.			
Date: 1979 Source: DELWP	Residential properties are located over the entire area of the former quarry.			
Date: 2000 Source: Google Inc.	Largely unchanged from the 1979 aerial photograph			
Date: 2009 Source: Google Inc.	Largely unchanged from the 2000 aerial photograph.			
Date: 2017 Source: Google Inc.	Largely unchanged from the 2009 aerial photograph.			

Review of historical photographs - Koonung Creek Linear Park

Photograph	Observations				
Date: 1951 Source: DELWP	The future Koonung Creek Linear Park appears to be vacant land with a section in the middle potentially used as farmland. There is minimal development in the areas surrounding the park.				
Date: 1962 Source: DELWP	Unchanged from the 1951 aerial photograph. The surrounding area, particularly to the south, has been extensively developed.				
Date: 1968 Source: DELWP	Major earth disturbance is evident across the park and may be due to landfilling. The surrounding area has continued to develop.				
Date: 1975 Source: DELWP	The earthworks are complete and the park has mostly been revegetated. Residential development has continued to increase in the surrounding areas.				
Date: 1978 Source: DELWP	The park appears fully revegetated. The surrounding area appears unchanged from the 1975 aerial photograph.				
Date: 1984 Source: DELWP	Largely unchanged from the 1978 aerial photograph. There appears to be some earthworks immediately to the west. Otherwise, the surrounding area has remained largely unchanged from the 1978 aerial photograph.				
Date: 1991 Source: DELWP	Largely unchanged from the 1984 aerial photograph. The earthworks previously noted to the west have ceased and this area has been revegetated. Otherwise, the surrounding area is remained largely unchanged from the 1984 aerial photograph.				
Date: 2005 Source: Google Inc.	The Eastern Freeway has been built along the southern boundary of the park. Further residential buildings have been developed to the west of Tram Road. Otherwise, the park and surrounding area is largely unchanged from the 1991 aerial photograph.				
Date: 2009 Source: Google Inc.	Largely unchanged from the 2005 aerial photograph.				
Date: 2017 Source: Google Inc.	Largely unchanged from the 2009 aerial photograph.				





Map Projection: Transverse Merca Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 55





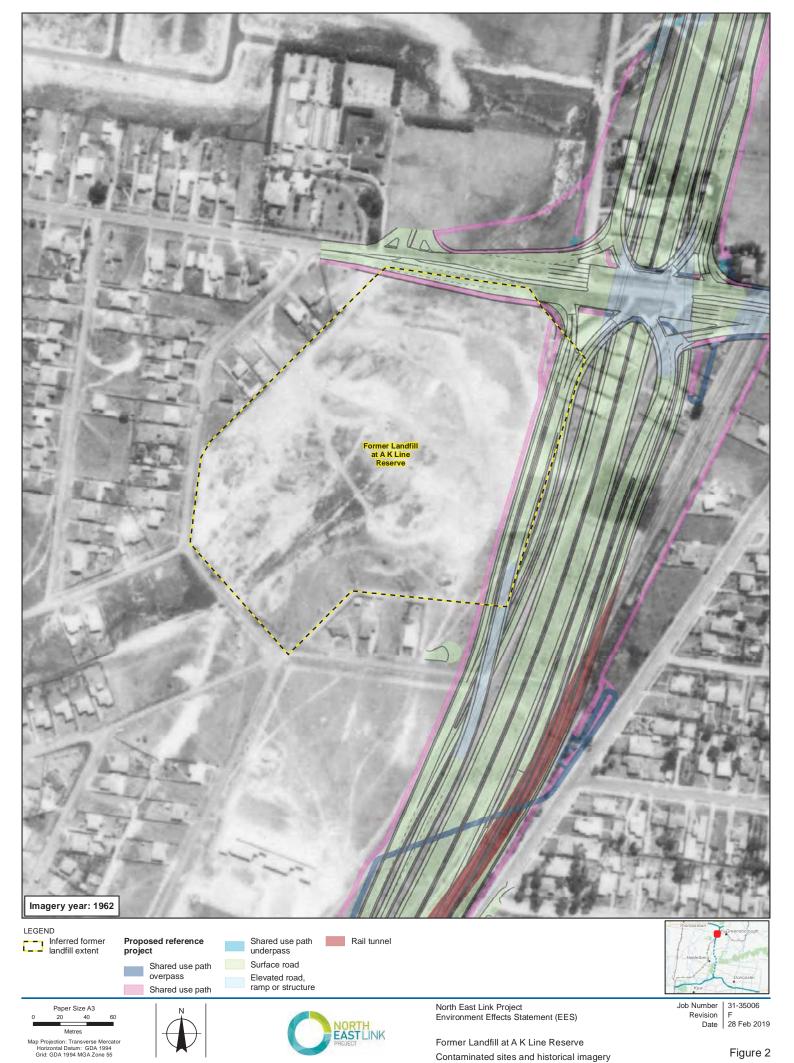
North East Link Project Environment Effects Statement (EES)

Former Quarry/Landfill at M80 & Greensborough Highway Bypass

Contaminated sites and historical imagery

Job Number Revision Date 28 Feb 2019

Figure 1









North East Link Project Environment Effects Statement (EES)

Job Number 31-35006 Revision Date 28 Feb 2019



Inferred former landfill extent

Shared use path Surface road



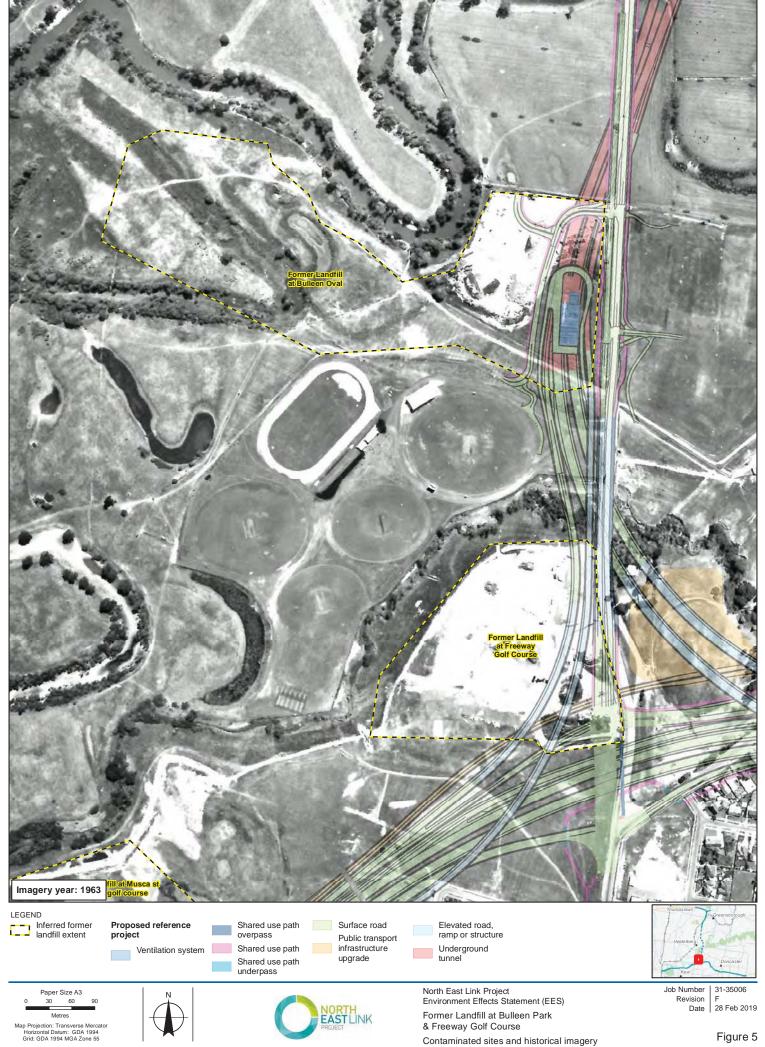


North East Link Project Environment Effects Statement (EES)

Former Quarry at Rocklea Road, Bulleen Contaminated sites and historical imagery Job Number Revision Date 28 Feb 2019

Figure 4

Map Projection: Transverse Merca Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 55 180 Lonsdale Street, Melbourne VIC 3000 Australia T 61 3 8687 8000 E melmail@ghd.com W www.ghd.com see and cannot accept liability and responsibility of any kind incomplete or unatable in any way and for any reason.







Inferred former landfill extent

Proposed reference project

Surface road

Public transport infrastructure upgrade



Map Projection: Transverse Merca Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 55

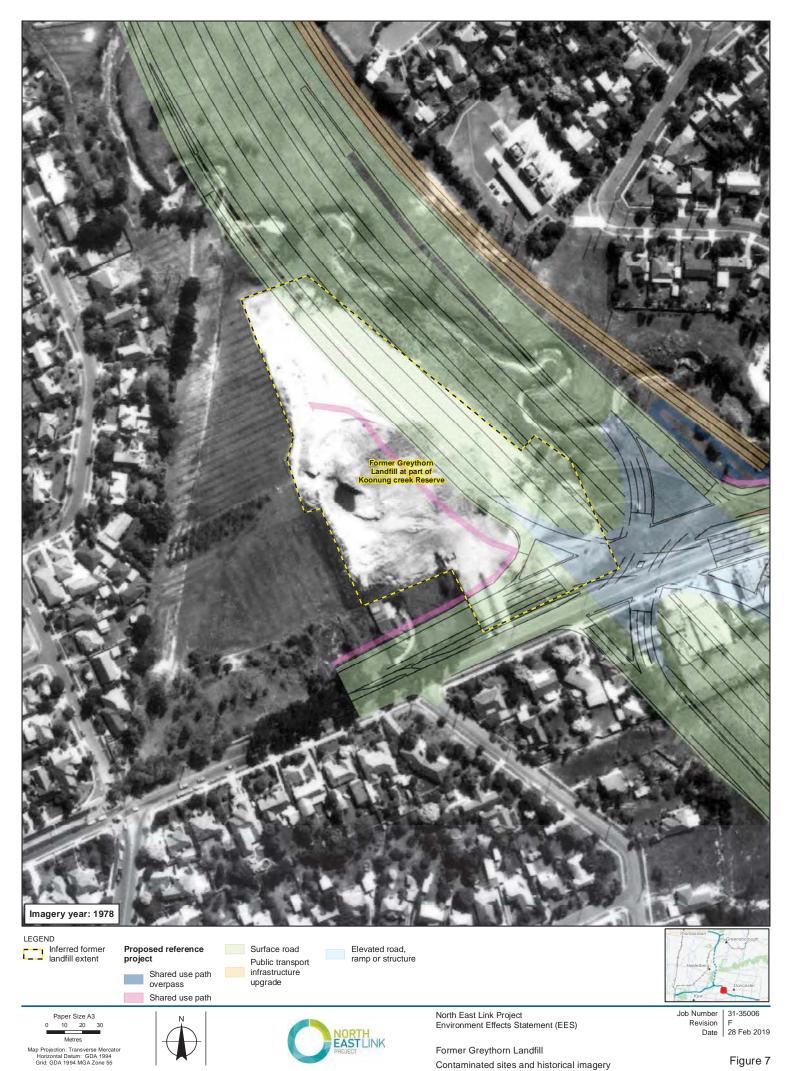


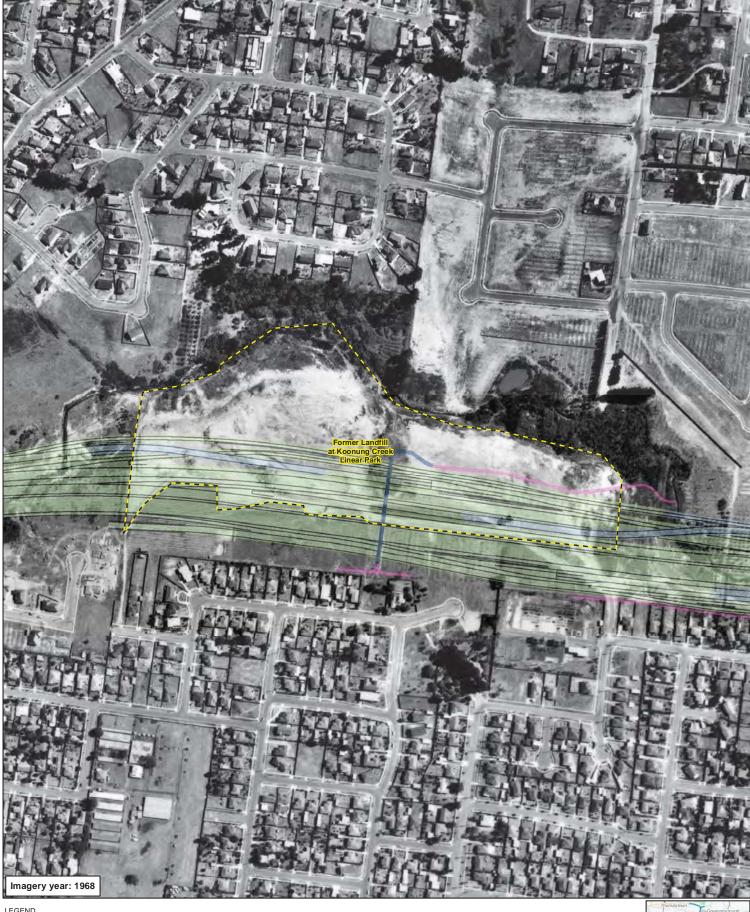


North East Link Project Environment Effects Statement (EES) Former Camberwell Landfill at Musca St Reserve & Freeway Golf Course Contaminated sites and historical imagery Job Number Revision Date

28 Feb 2019

Figure 6







Inferred former landfill extent

Proposed reference project



Surface road Elevated road, ramp or structure



Map Projection: Transverse Merca Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 55





North East Link Project Environment Effects Statement (EES)

Former Landfill at Koonung Creek Linear Park

Job Number Revision Date 28 Feb 2019

Appendix D – Historical certificates of title

Available on request

Appendix E – EPA audit sites

Appendix E - Statutory environmental audits in the vicinity of study area (refer to Section 7.1.5)

Location	CARMS No.	Audit Type	Outcome	Proximity to the Study Area
Simpson Barracks, Watsonia	17155-1	53X Certificate	The Auditor concluded that the condition of the land at the site is neither detrimental nor potentially detrimental to any beneficial use of the land at the site and issued as a Certificate of Environmental Audit.	0 m
Macleod Primary School (area 1, 2 & 3) – Cnr Greensborough Rd & Fairlie Ave, Macleod	35552-1, 35552-2, 35552-3	53X Certificate	The Auditor concluded that the condition of the land at the site is neither detrimental nor potentially detrimental to any beneficial use of the land at the site and issued as a Certificate of Environmental Audit.	40 m
Former Banyule High School – Buckingham Dr, Heidelberg	32032-1	53X Certificate	The Auditor concluded that the condition of the land at the site is neither detrimental nor potentially detrimental to any beneficial use of the land at the site and issued as a Certificate of Environmental Audit.	380 m
Cnr Bulleen Rd & Austin St, Bulleen	27621-2B	53X Statement	The Auditor issued a Statement of Audit for the front portion of the site, due to presence of residual of contamination. The Auditor concluded that the area is suitable for car park, commercial and residential uses.	40 m
	27621-2A	53X Certificate	The Auditor concluded that the condition of the land at the rear portion of the site is neither detrimental nor potentially detrimental to any beneficial use of the land at the site and issued as a Certificate of Environmental Audit.	70 m
233 Bulleen Rd, Bulleen	42804-1	53X Statement	The Auditor issued a Statement of Audit due to presence of an underground storage tank and localised hydrocarbon impacts exceeding sensitive land use guidelines.	0 m
			The Auditor concluded that the site is suitable for commercial or industrial use subject to conditions relating to maintaining a barrier between site occupants and contaminated soil. Any soils had to be disposed of appropriately in accordance with EPA guidelines.	

Location	CARMS No.	Audit Type	Outcome	Proximity to the Study Area
163 - 175 Noone St, Clifton Hill	62848-2	53X Statement	The Auditor issued a Statement of Audit due to elevated concentrations of benzo(a)pyrene, lead, zinc and copper in soil; and hydrocarbons and chlorinated solvents in groundwater. Contamination and background conditions resulted in the groundwater quality precluding the majority of the beneficial uses of the relevant groundwater segment (Segment B) under State Environment Protection Policy (Groundwaters of Victoria). The Auditor concluded that the site is suitable for sensitive use (high density) or commercial use subject to the Conditions contained in the Statement of Environmental Audit.	75 m
204 Noone St, Clifton Hill	56350-1	53X Statement	The Auditor issued a Statement of Audit due to elevated concentrations of chlorinated hydrocarbon and nitrate exceeding the adopted guidelines. The Auditor concluded that the site is suitable for sensitive use (high density or other residential), commercial or industrial use subject to the Conditions contained in the Statement of Environmental Audit.	120 m
80 - 110 Trenerry Cr, Abbotsford	40369-3	53X Statement	The Auditor issued a Statement of Audit due to fill soil containing asbestos waste materials, heavy metal and organic contaminants at concentrations above the adopted guidelines The Auditor concluded that the site's South Zone was suitable for medium/high density residential use; and North Zone is suitable for medium/high density residential development, subject to the Conditions contained in the Statement of Environmental Audit.	250 m
2 Yambla St, Clifton Hill	72719-1	53X Statement	The Auditor issued a Statement of Audit due to heavy metals and PAHs concentrations in the soil above the relevant ecological and health-based criteria applicable for a residential - single dwelling land use.	240 m

Location	CARMS No.	Audit Type	Outcome	Proximity to the Study Area
Yarra Bend Road, Fairfield	31522 PA	53X Statement	The Auditor issued a Statement of Audit due to fill on site containing PAH and benzo(a) pyrene in soil at concentrations above the adopted investigation levels. The Auditor concluded that the site may be suitable for sensitive use (medium or high density), parkland/open space, commercial or industrial use subject to the Conditions contained in the Statement of Audit.	450m
19-21 Tram Rd, Doncaster	36175-3	53X Certificate	The Auditor concluded that the condition of the land at the site is neither detrimental nor potentially detrimental to any beneficial use of the land at the site and issued as a Certificate of Environmental Audit.	250 m
413 - 429 Doncaster Rd, Doncaster	35392-1	53X Statement	The Auditor issued a Statement of Audit due to soil presence of offsite contamination. The Auditor concluded that the site is suitable for the proposed residential use subject to the Conditions contained in the Statement of Audit.	320 m
Lots 1-5 & 7-51, Belmore Rd Parcel 2,Box Hill North	32855-2	53X Certificate	Auditor concluded that the condition of the land at the site is neither detrimental nor potentially detrimental to any beneficial use of the land at the site and issued as a Certificate of Environmental Audit.	390 m
Spencer St, Nunawading	57357-1	53X Certificate	Auditor concluded that the condition of the land at the site is neither detrimental nor potentially detrimental to any beneficial use of the land at the site and issued as a Certificate of Environmental Audit.	360 m

Appendix F – Borehole logs

Appendix **F** - Stratigraphic and Instrumentation Bore Logs

Summary of included borehole logs

Borehole IDs	
NEL-ENV-BH003	NEL-LFB08
NEL-ENV-BH005	NEL-LFB09
NEL-ENV-BH006	NEL-LFB10
NEL-ENV-BH008	
NEL-ENV-BH009	
NEL-ENV-BH011	
NEL-ENV-BH012	
NEL-ENV-BH014	
NEL-ENV-BH016	
NEL-ENV-BH017	
NEL-ENV-BH018	
NEL-ENV-BH022	
NEL-ENV-BH023	
NEL-ENV-BH024	
NEL-ENV-BH025	
NEL-ENV-BH026	
NEL-ENV-BH027	
NEL-ENV-BH028	
NEL-ENV-BH029	
NEL-ENV-BH030	
NEL-ENV-BH031	
NEL-ENV-BH032	
NEL-LFB01	
NEL-LFB02	
NEL-LFB03	
NEL-LFB04	
NEL-LFB05	
NEL-LFB06	
NEL-LFB07	

Geotechnical bore logs can be provided upon request.



BOREHOLE No. NEL-ENV-BH003

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Kim Cl, Bulleen

Easting: 330925.1 m Northing: 5818763.5 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

UTM Zone: 55 Driller: SWD

Drill Rig: Commachio 405

Start/End Date: 27/09/2018 / 27/09/2018

Installation Date: 27/09/2018

Logged By: JC Checked By: LPS

			DRILLING	Э	MATERIAL							INSTALLATION
DRILLING SA CASING	WATER	GROUND WATER LEVELS	Depth (m)	Samples & Field Tests	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	MOISTURE	CONSISTENCY RELATIVE DENSITY	MONITORING WELL DETAILS	Components
*					0.0			FILL; Sandy Clay, pale brown mottled orange, fine grained sand, with trace fine grained, angular basalt gravel, high plasticity	w≃PL			
								FILL; Gravelly Clay, pale brown and black, fine - medium grained, angular basalt and sandstone gravels, with fine - coarse grained angular sand, high plasticity Becoming pale brown and black mottled orange - orange brown	w > PL	. St		
					_			Becoming brown mottled pale brown and orange - brown. Angular sandstone gravels with brick and concrete fragments throughout				Cement bentonite – grout backfill
— AUGER					_			CLAY; brown and grey - brown mottled orange brown, trace fine - coarse grained sand, trace fine - coarse grained, subrounded - subangular gravel, moderate plasticity		VSt		50mm PN18 uPVC - blank casing
					5.0				w≃PL			t— Bentonite seal —
					-			Becoming brown, high plasticity		VSt - H		-
					_			CLAY; grey - brown, high plasticity CLAY; pale grey mottled orange - brown, moderate plasticity		s		- Gravel filter pack
							-		w < PL	.VSt - H		50mm PN18 uPVC machine slotted casing (0.4 mm aperture)

GHD





BOREHOLE No. NEL-ENV-BH003

Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Kim Cl, Bulleen **Easting:** 330925.1 m **Northing:** 5818763.5 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

UTM Zone: 55 Driller: SWD

Drill Rig: Commachio 405

Start/End Date: 27/09/2018 / 27/09/2018

Installation Date: 27/09/2018

Logged By: JC Checked By: LPS

			DRILLING	G				MATERIAL				INSTALLATION
DRILLING SA & CASING	WATER	GROUND WATER LEVELS	Depth (m)	Samples & Field Tests	DЕРТН (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	MOISTURE	CONSISTENCY RELATIVE DENSITY	MONITORING WELL DETAILS	Components
AUGER——AUGER			_	.,_				CLAY; pale grey mottled orange - brown, moderate plasticity (continued)		VSt - H		
					10.0			BOREHOLE NEL-ENV-BH003 TERMINATED AT 9.00 m				

GHD

See GHD Standard Sheets for details of abbreviations & basis of descriptions.

GHD



BOREHOLE No. NEL-ENV-BH005

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Kim Cl, Bulleen

Easting: 330913.5 m Northing: 5818704.3 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

UTM Zone: 55 Driller: SWD

Drill Rig: Commachio 405

Start/End Date: 1/10/2018 / 1/10/2018

Installation Date: 1/10/2018

Logged By: JC Checked By: LPS

			DRILLIN	G				MATERIAL			INSTALLATION	
DRILLING SON	WATER	GROUND WATER LEVELS	Depth (m)	Samples & Field Tests	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	MOISTURE	CONSISTENCY RELATIVE DENSITY	MONITORING WELL DETAILS	Components
A			_		0.0			FILL; Sandy Clay, brown and orange, with trace fine - medium grained sand, trace fine - medium grained, subangular - angular basalt and sandstone gravels, high plasticity	w≃PL			
NDD					_			FILL; Sandy Clay with trace fine - coarse grained, angular - subangular basalt gravels, high plasticity				-
*								Sandy CLAY; brown and orange, with fine - coarse grained, subangular - angular sand, and trace fine - medium grained, subangular - angular basalt and quartz gravels, high plasticity. Trace aluminium scrap metal pieces throughout	w > PL			
			2.00	ES				Becoming brown mottled orange, with rootlets	-w < PL	St		Cement bentonite grout backfill
								Sandy CLAY; dark brown mottled orange and black, with fine grained sand, trace fine - coarse grained, subrounded - subangular basalt and siltstone gravels. High plasticity	W \ FL			— 50mm PN18 uPVC blank casing
—Auger								SANDSTONE (HW); pale brown and orange, recovered as fine - coarse grained chips and gravels. Sand is coarse grained				_
					5.0				D	н		■ Bentonite seal
					_							

GHD





BOREHOLE No. NEL-ENV-BH005

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Kim Cl, Bulleen

Easting: 330913.5 m Northing: 5818704.3 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

UTM Zone: 55 Driller: SWD

Drill Rig: Commachio 405

Start/End Date: 1/10/2018 / 1/10/2018

Installation Date: 1/10/2018

Logged By: JC Checked By: LPS

			DRILLING	G						INSTALLATION		
DRILLING SASING ON	WATER	GROUND WATER LEVELS	Depth (m)	Samples & Field Tests	DЕРТН (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	MOISTURE	CONSISTENCY RELATIVE DENSITY	MONITORING WELL DETAILS	Components
AUGER ——AUGER —		•		J =	10.0			SANDSTONE (HW); pale brown and orange, recovered as fine - coarse grained chips and gravels. Sand is coarse grained (continued)	D	н		Gravel filter pack 50mm PN18 uPVC machine slotted casing (0.4 mm aperture)
					15.0			BOREHOLE NEL-ENV-BH005 TERMINATED AT 11.90 m				

GHD



BOREHOLE No. NEL-ENV-BH006

Shoot 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Greenaway St, **Easting:** 331082.1 m **Northing:** 5818694.7 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

Drill Rig: Commachio 405

UTM Zone: 55 Driller: SWD **Start/End Date:** 15/03/2018 / 15/03/2018 **Installation Date:** 15/03/2018

Logged By: AS

Checked By: LPS

Bulleen DRILLING MATERIAL INSTALLATION CLASSIFICATION SYMBOL MOISTURE CONDITION CONSISTENCY RELATIVE DENSITY MONITORING WELL DETAILS PROGRESS DEPTH (m) GRAPHIC LOG ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable) GROUND WA' Ξ DRILLING & CASING WATER Components Depth 0.0 NDD - Not logged ¥ Silty CLAY; brown and yellow - brown 2.00-2.45 SPT N=28 < PL Cement bentonite grout backfill Becoming red - brown and yellow - brown 50mm PN18 uPVC blank casing 3.50-3.95 SPT N=26 VSt 5.00-5.45 SPT N=24 5.0 Bentonite seal Becoming red - brown Gravel filter pack 6.50-6.95 SPT N=13 St SPT N=13 8.00-8.45 50mm PN18 uPVC machine slotted casing (0.4 mm aperture) w > PL 10.0 BOREHOLE NEL-ENV-BH006 TERMINATED AT 10.00 m

GHD

180 Lonsdale Street Se Melbourne, Victoria 3000 T: (03) 8687 8000 F: (03) 8687 8111 E: melmail@ghd.com.au





Location: Greenaway St,

GROUNDWATER MONITORING WELL

BOREHOLE No. NEL-ENV-BH006

Client: North East Link Project Project: North East Link Project Project No: 31350060910

Easting: 331082.1 m Northing: 5818694.7 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

Drill Rig: Commachio 405

UTM Zone: 55 Driller: SWD

Start/End Date: 15/03/2018 / 15/03/2018 Installation Date: 15/03/2018

Logged By: AS

Checked By: LPS

Bulleen DRILLING MATERIAL INSTALLATION CLASSIFICATION SYMBOL MOISTURE CONDITION CONSISTENCY RELATIVE DENSITY MONITORING WELL DETAILS PROGRESS GRAPHIC LOG DEPTH (m) Samples & Field Tests ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable) DRILLING & CASING Ξ WATER Components Depth (8.00-8.45 SPT N=13 Becoming red - brown (continued) 50mm PN18 uPVC machine slotted casing (0.4 mm aperture) w = PI St 10.0 BOREHOLE NEL-ENV-BH006 TERMINATED AT 10.00 m 15.0



BOREHOLE No. NEL-ENV-BH008

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Greenaway St,

Easting: 331103.4 m Northing: 5818933.1 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

UTM Zone: 55 Driller: Terratest Drill Rig: Commachio 305 Start/End Date: 09/03/2018 / 09/03/2018

Installation Date: 09/03/2018 Logged By: MLM

Checked By: LPS

Bulle	en				inclination: -90' Bearing: N/A Drill Rig: Commacilio 305 Checked By. LF3											
		٠	DRILLIN	IG			 2	MATERIAL		L.		INSTALLATION				
ROGE & CASING & CASING	WATER SS	GROUND WATER LEVELS	Depth (m)	Samples & Field Tests	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	ROCK TYPE: Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	MOISTURE	CONSISTENCY RELATIVE DENSITY	MONITORING WELL DETAILS	Components				
					0.0		×	ASPHALT; Asphalt road surface FILL; Sandy gravel, grey, fine - medium grained and subangular - subrounded, gravel from crushed rock	D	D						
HAH								FILL; Silty sand, grey, fine grained, low plasticity silt	D	VD						
					-			CLAY; brown	w = PL	. VSt						
			1.50-1.95	SPT N=12				Sandy CLAY; grey mottled brown, fine - medium grained subrounded sand	w > PL w < PL	-		Cement bentonite grout backfill				
					-			Becoming brown streaked grey with mottled black, possible organics		_						
			3.00-3.45	SPT N=14	-					St						
								Becoming very sandy	w = PL	-	-	50mm PN18 uPVC blank casing				
					-			Becoming orange - brown mottled pale grey - mottled brown. Sand becoming finer with depth				■ Bentonite seal				
			4.50-4.95	SPT N=24												
					5.0				w < PL	VSt						
AUGER			6.00-6.45	U63	-			Becoming grey mottled orange brown				Gravel filter pack				
		<u> </u>			-			Becoming brown mottled pale grey, minor fine sand, Plasticity increasing with moisture content								
			7.50-7.95	SPT N=4					w > PL	s						
					-					F		50mm PN18 uPVC machine slotted casing (0.4 mm aperture)				
					-			Becoming dark grey								
			9.00-9.45	SPT N=24				SILTSTONE (XW); pale orange - brown and grey, residual soil inferred as siltstone	w < PL	. VSt						
												Gravel filter pack				

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BOREHOLE No. NEL-ENV-BH008

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Greenaway St,
Bulleen

Easting: 331103.4 m Northing: 5818933.1 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

UTM Zone: 55 Driller: Terratest Drill Rig: Commachio 305 Start/End Date: 9/03/2018 / 9/03/2018 Installation Date: 9/03/2018

Logged By: MLM

Checked By: LPS

Bul	Bulleen											
<u></u>		~	DRILLIN	IG T		_	z	MATERIAL		L	"	INSTALLATION
DRILLING SA & CASING	WATER	GROUND WATER LEVELS	Depth (m)	Samples & Field Tests	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	MOISTURE	CONSISTENCY RELATIVE DENSITY	MONITORING WELL DETAILS	Components
			_					Becoming brown mottled pale grey, minor fine sand, Plasticity increasing with moisture content (continued)				50mm PN18 uPVC machine slotted casing (0.4 mm aperture)
H.								Becoming dark grey	w > PL	F		
AUGER			9.00-9.45	SPT N=24	-			SILTSTONE (XW); pale orange - brown and grey, residual soil inferred as siltstone				-
									w < PL	VSt		← Gravel filter pack
					10.0			BOREHOLE NEL-ENV-BH008 TERMINATED AT 10.00 m				
					_							_
					_							-
					_							_
					15.0							_

GHD





Bearing: N/A

BOREHOLE No. NEL-ENV-BH009

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Manningham Rd,

Easting: 330848.5 m Northing: 5819055.6 m Reduced Level:

Inclination: -90°

Datum/Coord.System: MGA94 UTM Zone: 55 Driller: Star Drilling

Drill Rig: Geoprobe

Start/End Date: 01/06/2018 / 02/06/2018 Installation Date: 02/06/2018

Logged By: KA Checked By: LPS

Bulleen

bulleeri	DRILLIN	IG				MATERIAL			INSTALLATION			
DRILLING & CASING WATER	GROUND WATER LEVELS Depth (m)	Samples & Field Tests	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	MOISTURE	CONSISTENCY RELATIVE DENSITY	MONITORING WELL DETAILS	Components		
HA—	0.50 1.00 1.50 2.00-2.45 2.00 2.00 2.45-2.90 2.50	ES PID = 0.0 ppm ES PID = 0.0 ppm ES PID = 0.0 ppm SPT N=12 PID = 0.0 ppm ES SPT N=23 PID = 0.0 ppm	-			TOPSOIL; rootlets, loose organic material FILL; Clay, brown, moderate plasticity, unconsolidated material with minor silt and sand CLAY; brown - grey with orange sandy striations, moderate plasticity with minor silt and sand Silty CLAY; grey - orange, low plasticity	D	L		E— Bentonite seal — 50mm PN18 uPVC blank casing		
AD	3.80 4.00-4.45 4.00 4.80	ES PID = 0.0 ppm N=17 SPT PID = 0.0 ppm	5.0				M	S		← Gravel filter pack Form PN18 uPVC machine slotted casing (0.4 mm aperture)		
<u> </u>	5.60-6.05 5.60	SPT N=37 PID = 0.0 ppm	-			SAND; grey - orange, medium grained, with minor silt, minor clay and minor angular gravel SILTSTONE (XW); pale brown, residual soil inferred as siltstone BOREHOLE NEL-ENV-BH009 TERMINATED AT 6.50 m	W	D				
			-									

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BOREHOLE No. NEL-ENV-BH011

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Kim Cl, Bulleen

Easting: 330982.7 m Northing: 5818905.4 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55 Driller: Star Drilling

Start Date: 27/06/2018 End Date: 27/06/2018 Logged By: KA Checked By: LPS

		וומח	LING AND SAMPLING					MATERIAL			
-	-	DKIL	LING AND SAIVIFLING			-	1			>	
& Casing	Water	Depth (m)	Samples & Field Tests	Recovered	RL (m) Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations
A	C).10	ES PID = 0.0 ppm			<i>k k</i>		TOPSOIL; Clay, dark brown minor silt, trace sand, gravel and rootlets, moderate plasticity FILL; Clay, brown, minor silt and sand, trace gravel and angular rock fragments, low plasticity	D M	F-St	0.00: No odours or staining 0.10: Environmental sample
НА —	c	0.50	ES PID = 0.0 ppm		0.		X X X X				0.50: Environmental sample
	1	1.00	ES PID = 0.0 ppm		1 <u>.</u>		× × × × × × ×				1.00: Environmental sample
y	1	1.50	ES PID = 0.0 ppm		1,3	5	×	BOREHOLE NEL-ENV-BH011 TERMINATED AT 1.50 m			1.50: Environmental sample
					2.						
					2_	5					
						-					
					3 <u>.</u>	<u> </u>					
					3.	5					
					4 <u>.</u>	0					
					4.	5					
					1						
					5_	_ _ _					
						-					
					5.						
Melb	Lonsd	lale Street	3000 F: (03) 8687 8111 E: I				tandan	d Sheets for details of abbreviations & basis of descriptions.			G





BOREHOLE No. NEL-ENV-BH012

Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910

Easting: 331076.8 m Northing: 5818841.8 m

Reduced Level: Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55

Driller: QEST

Drill Rig:

Start Date: 13/07/2018 End Date: 13/07/2018 Logged By: KA Checked By: LPS

_ocation:	Greenaway St,	Inclination:	-90°
Bulleen			
Julieen			

		DRIL	LING AND SAMPLING	_					MATERIAL	-		
& Casing	Water	Depth (m)	Samples & Field Tests	Recovered	RL (m)	Depth (m)	Graphic Log	Classification	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations
A		0.10				-	£ , k		TOPSOIL			0.00: No odours or staining 0.10: Environmental sample
			ES PID = 0.0 ppm			0 <u>.5</u>		×	FILL; Clay, brown - orange, minor silt and sand, trace gravel and rootlets, moderate plasticity			
- HA		0.50	ES PID = 0.0 ppm			-		× × × ×				0.50: Environmental sample
		1.00	ES PID = 0.0 ppm			1 <u>.0</u>		× × × ×				1.00: Environmental sample
						-		¥ 4	SAND; orange, medium grained, trace silt and clay, compact			
•		1.50	ES PID = 0.0 ppm			1.5			BOREHOLE NEL-ENV-BH012 TERMINATED AT 1.50 m			1.50: Environmental sample
						-						
						2 <u>.0</u>						
						_						
						-						
						2 <u>.5</u>	5					
						-						
						-						
						3 <u>.0</u>						
						-						
						-						
						3 <u>.5</u>	1					
						-						
						-						
						4 <u>.0</u>						
						-						
						-	-					
						4 <u>.5</u>						
						-	1					
						-	-					
						5 <u>.0</u>						
						-						
						-	-					
						5.5						
Melb	Lons	sdale Stree						tanda	rd Sheets for details of abbreviations & basis of descriptions.			GH



BOREHOLE No. NEL-ENV-BH014

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Kim Cl, Bulleen

Easting: 330987.6 m Northing: 5818789.9 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

Drill Rig: Commachio 305

UTM Zone: 55 Driller: Terratest Start/End Date: 13/06/2018 / 13/06/2018 Installation Date: 13/06/2018

Logged By: AS

Checked By: LPS

			DRILLIN	G				MATERIAL				INSTALLATION
DRILLING 84 & CASING 00	WATER	GROUND WATER LEVELS	Depth (m)	Samples & Field Tests	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	MOISTURE	CONSISTENCY RELATIVE DENSITY	MONITORING WELL DETAILS	Components
▲ —					0.0			NDD - Not logged				
A—AUGER—			1.60-2.05	SPT N=R	_			Clayey SAND; brown, fine - coarse grained, subangular - subrounded, with high plasticity clay and trace fine angular sandstone (HW) gravels	М	D		
					_			SANDSTONE (HW); red-brown and orange-brown with pale grey, minor clay and various incipient fractures				Cement bentonite grout backfill _
					_			CORE LOSS SANDSTONE (HW); red-brown and orange-brown with pale grey, minor clay and various incipient fractures	_			50mm PN18 uPVC blank casing
					_	×		CORE LOSS SANDSTONE (HW); red-brown and orange-brown with pale grey, minor clay and various incipient fractures	-			■ Bentonite seal
——НДЗ					5.0							Gravel filter pack
								SANDSTONE (HW); red-brown and orange brown, angular - subangular sandstone fragments with hard clayey matrix, ferruginous, highly fractured				
					_			SILTSTONE (HW); pale cream - pink siltstone in clayey matrix, highly fractured				-
					-			CORE LOSS Sandy CLAY; pale grey - pale pink high plasticity, with discrete siltstone lenses up to 100mm thick	w = PL	F		50mm PN18 uPVC machine slotted casing (0.4 mm aperture)
								SILTSTONE (XW); cream - pink, highly fractured with clayey matrix	1 &			
								UD Chardeed Cheete fee details of abbreviations & having of descriptions				

GHD





BOREHOLE No. NEL-ENV-BH014

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Kim Cl, Bulleen

Easting: 330987.6 m Northing: 5818789.9 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

Drill Rig: Commachio 305

UTM Zone: 55 Driller: Terratest **Start/End Date:** 13/06/2018 / 13/06/2018 Installation Date: 13/06/2018

Logged By: AS

Checked By: LPS

			DRILLING	3				MATERIAL				INSTALLATION
PROG	RESS	TER.			m)	O	NOI		шх	, E C C	NG ILS	
DRILLING & CASING	WATER	GROUND WATER LEVELS	Depth (m)	Samples & Field Tests	DEРТН (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	MOISTUR	CONSISTENCY RELATIVE DENSITY	MONITORING WELL DETAILS	Components
						_:=:=		SILTSTONE (XW); cream - pink, highly fractured with clayey matrix (continued)				
— HQ3								Sandstone lenses present throughout				Gravel filter pack
								BOREHOLE NEL-ENV-BH014 TERMINATED AT 8.50 m				
					_							_
												_
					10.0							
												_
					=							_
					15.0							

GHD



BOREHOLE No. NEL-ENV-BH016

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Greenaway St,

Easting: 331065.5 m Northing: 5818785.2 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

UTM Zone: 55 Driller: QEST Drill Rig:

Start Date: 13/07/2018 End Date: 13/07/2018 Logged By: KA Checked By: LPS

Bulleen		naway St,	inci	linatio	л			g: N/A Drill Rig:			hecked By: LPS
bulleen		DRILLING AND SAMPLING						MATERIAL			
& Casing Water	Depth (m)	Samples & Field Tests	Recovered	RL (m)	Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations
1	0.10	ES PID = 0.0 ppm			-	<i>f f</i>	` `	TOPSOIL FILL; Clay, orange - brown, minor sand and silt, trace gravel, rootlets and brick fragments, moderate plasticity			0.00: No odours or staining 0.10: Environmental sample
— HA	0.50	ES PID = 0.0 ppm			- 0 <u>.5</u> - -		× × × × × × × ×				0.50: Environmental sample
	1.00	ES PID = 0.0 ppm			- 1 <u>.0</u> - -	(XX)	X	CLAY, Brown - orange, minor silt, trace sand, moderate plasticity			1.00: Environmental sample
V	1.50	ES PID = 0.0 ppm			1.5			BOREHOLE NEL-ENV-BH016 TERMINATED AT 1.50 m			1.50: Environmental sample
					2.00		tandan da	N Sheats for relatails of abbreviations & basis of electricitions			
GHD 180 Lor	nsdale St	reet oria 3000			See	e GHD St	tandar	d Sheets for details of abbreviations & basis of descriptions.			GH





BOREHOLE No. NEL-ENV-BH017

Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Bulleen Rd, Bulleen

Easting: 331128.9 m Northing: 5818673.4 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55

Start Date: 01/06/2018 End Date: 01/06/2018 Driller: QEST Logged By: KA Drill Rig: Checked By: LPS

LUCALI	on: Bulleen	Ru, bulleen	inc	linatio	on: -9	10° E	searin	g: N/A Drill Rig:			hecked By: LPS
	DRI	LLING AND SAMPLING						MATERIAL			
& Casing Water	Depth (m)	Samples & Field Tests	Recovered	RL (m)	Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations
	0.10	ES PID = 0.0 ppm			-	* * *		TOPSOIL; rootlets and organic material	D	L	0.00: No odour or staining 0.10: Environmental sample
	0.60	ES			0 <u>.5</u>			FILL; Clay, low plasticity with trace silt, trace sand, trace gravel			0.60: Environmental sample
		PID <u>= 0.0 ppm</u>			-	XXX		BOREHOLE NEL-ENV-BH017 TERMINATED AT 0.70 m			
					1 <u>.0</u>						
					-						
					1 <u>.5</u> _						
					2 <u>.0</u>						
					-						
					2.5						
					-						
					3 <u>.0</u>						
					-						
					3 <u>.5</u>						
					- 4 <u>.0</u>						
					-						
					4 <u>.5</u>						
					-						
					5 <u>.0</u>						
					-						
SHD					5.5 See		andar	d Sheets for details of abbreviations & basis of descriptions.			_
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BOREHOLE No. NEL-ENV-BH018

Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Greenaway St,

Easting: 331040.3 m Northing: 5818656.1 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

Start Date: 13/07/2018 UTM Zone: 55 End Date: 13/07/2018 Driller: QEST Logged By: KA Drill Rig: Checked By: LPS

	cation	n: Greenawa	ay St,	Incl	linatio	on: -9	0° E	Bearin	g: N/A Drill Rig:		С	hecked By: LPS
Bu	neer		LING AND SAMPLING						MATERIAL			
Drilling & Casing	Water	Depth (m)	Samples & Field Tests	Recovered	RL (m)	Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations
1		0.10	ES PID = 0.0 ppm			-	k k		TOPSOIL			0.00: No odours or staining 0.10: Environmental sample
			PID = 0.0 ppm			-			FILL; Clay, orange - brown, minor sand and silt, trace gravel, rootlets and brick fragments, moderate plasticity			-
		0.50	ES PID = 0.0 ppm			0 <u>.5</u>		< <				0.50: Environmental sample
HAH						-		\ \ \				-
		1.00	ES PID = 0.0 ppm			1 <u>.0</u>		4	CLAY; Orange - brown, minor silt, trace sand, mdoerate plasticity			1.00: Environmental sample
						=						-
*		1.50	ES PID = 0.0 ppm			1.5			BOREHOLE NEL-ENV-BH018 TERMINATED AT 1.50 m			1.50: Environmental sample
						-						-
						2 <u>.0</u>						_
						-						-
						2.5						-
						3 <u>.0</u>						-
						3 <u>.0</u>						-
8 15:02						3.5						-
7 27/Jul/201						-						-
FBORES.GI						4 <u>.0</u>						-
HOLE NEL-L						-						- - -
RED BORE						4.5						-
EL NON-CO						-						-
1 LIB 08.1 GHD 1.14_NEL GLB Log NEL NON-CORED BOREHOLE NEL-LFBORES.GFD/27/Jul/2018 15:02						5.0						-
4D 1.14_NEL						-						-
LIB 06.1 GI						- 5.5						-

GHD





Bearing: N/A

BOREHOLE No. NEL-ENV-BH022

Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910

Location: Simpson Barracks, Yallambie

Easting: 330901.0 m Northing: 5823508.2 m Reduced Level:

Inclination: -90°

Datum/Coord.System: MGA94 UTM Zone: 55 Driller: Star Drilling Drill Rig: Geoprobe **Start/End Date:** 12/06/2018 / 12/06/2018 **Installation Date:** 12/06/2018

Logged By: AT Checked By: LPS

DRILLING INSTALLATION MATERIAL CLASSIFICATION SYMBOL MONITORING WELL DETAILS PROGRESS MOISTURE CONDITION CONSISTENCY RELATIVE DENSITY DEPTH (m) GRAPHIC LOG Samples & Field Tests ROCK TYPE: Colour, Grain size, Structure GROUND WA CASING Ξ (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable) WATER Components Depth 0.0 FILL; Topsoil, sandy clay, grey, fine grained sand, rootlets 0.20 PID = 8.0 Sandy CLAY; brown mottled orange - brown, fine grained sand, rootlets ppm ES PID = 1.9 0.50 ¥ ppm 1.00 Becoming orange - brown mottled pale grey PID = 1.8 ppm 1.50 CLAY; orange - brown mottled pale grey, minor resdiual soil inferred as extremely weathered siltstone ES PID = 0.8 ppm < PL Н 2.50-2.63 SPT N=R SILTSTONE (XW); Residual soil inferred as siltstone. Pale purple grey-orange-brown, with indistinct laminae, iron staining Laminar bedding dipping at 30° Clayey SILT; pale grey mottled pale purple, minor fine grained, subangular-angular extremely weathered siltstone gravel / < PL VSt SILTSTONE (XW); Residual soil inferred as siltstone. Pale purple - grey-orange-brown, with indistinct laminae dipping at 30°, iron staining Clayey SILT; pale purple mottled orange-brown, minor angular-subangular extremely weathered siltstone gravel < PL VSt 5.0 SILTSTONE (XW); Resdiual soil inferred as siltstone. Pale purple - orange Becoming highly weathered, partially healed joints at 70°-80°, likely quartz infill Highly weathered, fewer joints throughout Cement bentonite grout backfill More frequent curved veins WB SILTSTONE (MW-HW); pale purple-orange brown, laminae dipping at 10° - 15° , with trace sandstone. Sandstone is fine grained, very thinly bedded dipping at 10° - 15° 50mm PN18 uPVC blank casing

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See GHD Standard Sheets for details of abbreviations & basis of descriptions.

possible mica flecks

SANDSTONE (MW-HW); red - red brown, fine grained, indistinct bedding with

SILTSTONE (MW-HW); pale purple-orange brown, laminae dipping at 10°-15°, with trace sandstone. Sandstone is fine grained, very thinly bedded dipping at 10°-15°

 ${\bf SANDSTONE\ (MW-HW); pale\ purple\ -\ orange\ brown,\ fine\ -\ medium\ grained,\ indistinct\ bedding}$

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BOREHOLE No. NEL-ENV-BH022

Client: North East Link Project Project: North East Link Project

Project No: 31350060910 Reduced Level: Location: Simpson Barracks, Yallambie

Easting: 330901.0 m Northing: 5823508.2 m

Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

UTM Zone: 55 Driller: Star Drilling Drill Rig: Geoprobe Start/End Date: 12/06/2018 / 12/06/2018

Installation Date: 12/06/2018

Logged By: AT Checked By: LPS

PROGRESS ROCK TYPE: Calour, Grain size, Structure GRAPHIC CLOS FIGURES & Samples & Casing GRAPHIC CLOS FIGURES & Samples & Casing GRAPHIC CLOS FIGURES	MOISTURE CONDITION RELATIVE RELATIVE	TAILS
Balltring WATER WATER	MOI CONS REI	MONITORING WONTORING Components
15.0 15.0 Sit STONE (MW-HW); pale yellow grey - brown, thisly bested riferbodded with trace very thinly laminated - laminated sandston tracebased with trace very thinly laminated - laminated sandston tracebased with trace very thinly laminated - laminated sandston tracebased with trace very thinly laminated - laminated sandston tracebased with tracebased very thinly laminated - laminated sandston tracebased very thinly laminated - laminated - laminated - laminated - laminat	d at 20°, me beds	Form PN18 uPVC machine slotted casing (0.4 mm aperture)

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BOREHOLE No. NEL-ENV-BH022

Client: North East Link Project Project: North East Link Project Project No: 31350060910

Location: Simpson Barracks, Yallambie

Easting: 330901.0 m Northing: 5823508.2 m Reduced Level:

Inclination: -90°

UTM Zone: 55 Driller: Star Drilling Bearing: N/A Drill Rig: Geoprobe

Datum/Coord.System: MGA94

Installation Date: 12/06/2018 Logged By: AT Checked By: LPS

Start/End Date: 12/06/2018 / 12/06/2018

						y. L. O	
DRILLING			MATERIAL				INSTALLATION
PRILLING & CASING WATER GROUND WATER LEVELS REVELS BORDH (m) Depth (m)	DEPTH (m) GRAPHIC	LOG CLASSIFICATION SYMBOL	ROCK TYPE: Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	MOISTURE	CONSISTENCY RELATIVE DENSITY	MONITORING WELL DETAILS	Components
N	20.0		ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable) Sandstone becoming thinly bedded (continued) Fe-staining in sandstone and frequent Fe-infilled veins with a range of angles and directions BOREHOLE NEL-ENV-BH022 TERMINATED AT 22.00 m	MOISTURE CONDITION	CONSISTENCY CONSISTENCY CONSISTENCY CONSISTENCY CONSISTENCY CONSIST CO		Components
	-						_

GHD





BOREHOLE No. NEL-ENV-BH023

Client: North East Link Project Project: North East Link Project Project **No:** 31350060910

Location: Greensborough Rd, Yallambie

Easting: 330891.8 m Northing: 5823533.4 m Reduced Level:

Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

Start Date: 05/06/2018 UTM Zone: 55 End Date: 05/06/2018 Driller: QEST Logged By: KA Drill Rig: Checked By: LPS

	DRI	LLING AND SAMPLING						MATERIAL		_	
Water	Depth (m)	Samples & Field Tests	Recovered	RL (m)	Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations
	0.10	ES PID = 0.0 ppm ES PID = 0.0 ppm				<i>k k</i>		TOPSOIL FILL; Clay, orange - brown, minor sand, trace silt and gravel, rootlets and brick fragments, moderate plasticity	D	L	0.00: No odour or staining 0.10: Environmental sample 0.30: Environmental sample
	0.50 0.60	ES PID = 0.0 ppm ES PID = 0.0 ppm			0.5			CLAY; Orange - brown, minor silt, trace sand, moderate plasticity BOREHOLE NEL-ENV-BH023 TERMINATED AT			0.50: Environmental sample 0.60: Environmental sample
					1 <u>.0</u>			0.70 m			
					- - 1 <u>.5</u>						
					- - -						
					2 <u>.0</u> -						
					2 <u>.5</u>						
					- - 3 <u>.0</u>						
					-						
					3 <u>.5</u>						
					- 4 <u>.0</u>						
					- - 4.5						
					-						
					5 <u>.0</u>						
					5.5	CHU &	andar	d Sheets for details of abbreviations & basis of descriptions.			
Ibouri	sdale Stree ne, Victoria	et 3000 F: (03) 8687 8111 E: m					ai iUdi (a Grices for details of abbreviations & basis of desCriptions.			





BOREHOLE No. NEL-ENV-BH024

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Watsonia Rd, Watsonia **Easting:** 330996.5 m Northing: 4824228.0 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

UTM Zone: 55 Driller: Star Drilling Drill Rig: Geoprobe **Start/End Date:** 24/04/2018 / 24/04/2018

Installation Date: 24/04/2018 Logged By: KA

Checked By: LPS

			DRILLIN	IG				MATERIAL				INSTALLATION
DRILLING SA & CASING	WATER	GROUND WATER LEVELS	Depth (m)	Samples & Field Tests	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	MOISTURE	CONSISTENCY RELATIVE DENSITY	MONITORING WELL DETAILS	Components
QQN			0.10 0.50 1.00	ES PID = 0.3 ppm ES PID = 0.6 ppm ES PID = 0.4 ppm	0.0			FILL; Clay, pale brown, minor siltstone fragments 0.5 - 30mm in diameter, moderate plasticity SANDSTONE (XW); Residual soil inferred as sandstone and siltstone. Pale brown, grey and orange	D	F-H		-
AUGER					5.0				М			Cement bentonite grout backfill 50mm PNT8 uPVC blank casing

GHD



BOREHOLE No. NEL-ENV-BH024

Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Watsonia Rd, Watsonia **Easting:** 330996.5 m **Northing:** 4824228.0 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

UTM Zone: 55
Driller: Star Drilling
Drill Rig: Geoprobe

Start/End Date: 24/04/2018 / 24/04/2018 **Installation Date:** 24/04/2018

Logged By: KA Checked By: LPS

DRILLING MATERIAL INSTALLATION MONITORING WELL DETAILS CLASSIFICATION SYMBOL MOISTURE CONDITION CONSISTENCY RELATIVE DENSITY PROGRESS GRAPHIC LOG DEPTH (m) Samples & Field Tests ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable) GROUND WAT LEVELS DRILLING & CASING Depth (m) WATER Components SILTSTONE (XW); Residual soil inferred as siltstone. Pale brown - dark brown, grey and orange Gravel filter pack М 50mm PN18 uPVC machine slotted casing (0.4 mm aperture) 10.0 w BOREHOLE NEL-ENV-BH024 TERMINATED AT 11.50 m 15.0

GHD





BOREHOLE No. NEL-ENV-BH025

Client: North East Link Project Project: North East Link Project Project No: 31350060910

Location: Watsonia Station, Watsonia

Easting: 331024.6 m Northing: 5824382.8 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

UTM Zone: 55 Driller: Star Drilling Drill Rig: Geoprobe **Start/End Date:** 24/04/2018 / 26/04/2018

Installation Date: 26/04/2018 Logged By: KA

Checked By: LPS

			DRILLIN	IG				MATERIAL				INSTALLATION
PROG	SRESS	3 🖁	DIVIELII		2		N O		7	∂	D S	IIIOI, LELITION
		GROUND WATE LEVELS	Depth (m)	Samples & Field Tests		GRAPHIC LOG	CLASSIFICATIV SYMBOL	ROCK TYPE: Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	MOISTURE	CONSISTENC RELATIVE DENSITY	MONITORIN WELL DETAIL	Components
AUGER NDD DEILING DRILLING DAY OF SCHOOL DAY		GROUND WATER LEVELS	0.30 0.60 1.00	ES PID = 0.4 ppm ES PID = 1.1 ppm ES PID = 1.4 ppm ES PID = 0.2 ppm	0.0 DEPTH (m)		-	ROCK TYPE: Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable) FILL; Gravel, pale grey - dark grey, fine - coarse grained, angular crushed rock ASPHALT FILL; Clay, brown, moderate plasticity FILL; Ballast and clay CLAY; Pale brown, minor silt, moderate plasticity SANDSTONE (XW); Residual soil inferred as sandstone and siltstone, pale brown, brown, grey and dark brown. SILTSTONE (XW); Residual soil inferred as siltstone, pale brown - grey	MOISTURE	H SELATIVE RELATIVE DENSITY		Cement bentonite grout backfill 50mm PN18 uPVC blank casing
												■ Bentonite seal

GHD





BOREHOLE No. NEL-ENV-BH025

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Watsonia Station, Watsonia **Easting:** 331024.6 m Northing: 5824382.8 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

UTM Zone: 55 Driller: Star Drilling Drill Rig: Geoprobe Start/End Date: 24/04/2018 / 26/04/2018

Installation Date: 26/04/2018

Logged By: KA Checked By: LPS

			DRILLING	3				MATERIAL				INSTALLATION
S CASING S CASING	WATER	GROUND WATER LEVELS	Depth (m)	Samples & Field Tests	DEPTH (m)	GRAPHIC LOG	SYMBOL SYMBOL	ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	MOISTURE	CONSISTENCY RELATIVE DENSITY	MONITORING WELL DETAILS	Components
	WATER SSS	GROUND WATER LEVELS	Depth (m)	Samples & Field Tests	DEPTH (m)	907	CLASSIFICATION	ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable) SILTSTONE (XW); Residual soil inferred as siltstone, pale brown - grey (continued)	MOISTURE CONDITION	CONSISTENCY RELATIVE PERIATIVE DENSITY DENSITY		Components Gravel filter pack 50mm PN18 uPVC machine slotted casing (0.4 mm aperture)
						 		BOREHOLE NEL-ENV-BH025 TERMINATED AT 15.50 m	w			
								UD Chandred Chante for details of abbreviations & basis of descriptions				

GHD





BOREHOLE No. NEL-ENV-BH026

Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Watsonia Station, Watsonia **Easting:** 331049.7 m Northing: 5824419.6 m Reduced Level:

Datum/Coord.System: MGA94 UTM Zone: 55 Driller: QEST

Start Date: 24/04/2018 End Date: 24/04/2018 Logged By: KA Checked By: LPS

		No: 313500 n: Watsonia	Station, Watsonia		uced Lev nation:		Bearin	g: N/A Drill Rig:			ogged By: KA hecked By: LPS			
		DRIL	LING AND SAMPLING					MATERIAL						
& Casing	Water	Depth (m)	Samples & Field Tests	Recovered	<i>RL (m)</i> Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations			
		0.10	ES PID = 0.1 ppm				×	FILL; Gravel, grey, fine - coarse grained, angular, crushed rock CLAY; brown, moderate plasticity			0.10: Environmental sample			
NDD		0.50	ES PID = 0.3 ppm		0_	5		SANDSTONE (XW); Residual soil inferred as sandstone, interbedded with siltstone, pale brown, dark brown, grey			0.50: Environmental sample			
		1.00	ES PID = 0.5 ppm		1 <u>.</u>	0		SILTSTONE (XW); Residual soil inferred as siltstone, pale brown - grey			1.00: Environmental sample			
•					1.	5		BOREHOLE NEL-ENV-BH026 TERMINATED AT 1.50 m						
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GHD





BOREHOLE No. NEL-ENV-BH027

Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Watsonia Station, Watsonia Easting: 331128.2 m Northing: 5824501.9 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55 Driller:

Drill Rig:

Start Date: 27/04/2018 End Date: 27/04/2018 Logged By: KA Checked By: LPS

			. Watsonia	<u> </u>			пацог				g: N/A Drill Rig:			пескей Бу. 125
			DRILI	LING AND SAME	PLING						MATERIAL			
	Unilling & Casing	Water	Depth (m)	Samples & Field Tests		Recovered	RL (m)	Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations
	- HA -		0.00	ES							FILL; Gravel, grey, fine - medium grained, angular, crushed rock 5-30mm in diameter, with a clayey matrix. Clay is pale brown, with moderate plasticity			0.00: Environmental sample
	Ţ		0.30	ES				-	× ×.× · · · · · ·		SANDSTONE (XW); Residual soil inferred as sandstone, interbedded with siltstone, pale brown, dark brown, grey			0.30: Environmental sample
								0 <u>.5</u>			BOREHOLE NEL-ENV-BH027 TERMINATED AT 0.40 m Refusal			_
								-						-
								1 <u>.0</u>						-
								-						_
								-						_
								1 <u>.5</u>						_
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GLB Log r								_						-
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BOREHOLE No. NEL-ENV-BH028

Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Watsonia Station, Watsonia **Easting:** 331236.6 m Northing: 5824649.3 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55

Driller: QEST

Drill Rig:

Start Date: 24/04/2018 End Date: 24/04/2018 Logged By: KA Checked By: LPS

LUCA		. vv atsorna	Station, Watsonia	inc	linatio)n: -8	9U E	searin	g: N/A Drill Rig:			checked By: LPS
		DRIL	LING AND SAMPLING						MATERIAL			
& Casing	Water	Depth (m)	Samples & Field Tests	Recovered	RL (m)	Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations
A		0.10	ES PID = 0.3 ppm			-		*	FILL; Clay, pale brown, minor rounded - angular siltstone fragments 5-30mm in diameter, moderate plasticity			0.10: Environmental sample
		0.50	ES PID = 0.7 ppm			0 <u>.5</u>			CLAY; brown, minor silt, trace sand and rounded -			0.50: Environmental sample
		1.00	ES PID = 0.7 ppm			- 1 <u>.0</u>			angular siltstone fragments			1.00: Environmental sample
						- - 1.5			SANDSTONE (XW); Residual soil inferred as sandstone and siltstone, pale brown - grey - dark brown			
y		1.50	ES PID <u>= 0.7 ppm</u>			1 <u>.5</u>			BOREHOLE NEL-ENV-BH028 TERMINATED AT			1.50: Environmental sample
						2 <u>.0</u> 2.0 - - - 2 <u>.5</u>			1.60 m			
						3 <u>.0</u>						
						3 <u>.5</u>						
						4 <u>.0</u>						
						- 4 <u>.5</u>						
						- - 5 <u>.0</u>						
						- - - 5.5						
Melb	ons ourr	sdale Street		a oler - "	I@s-L	See	e GHD St	andar	Sheets for details of abbreviations & basis of descriptions.	ı	<u> </u>	(GI





BOREHOLE No. NEL-ENV-BH029

Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Watsonia Rd, Watsonia Easting: 330999.4 m Northing: 5824239.1 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55

Driller: QEST Drill Rig:

Start Date: 24/04/2018 End Date: 24/04/2018 Logged By: KA Checked By: LPS

	DRILLING AND SAMPLING								MATERIAL								
& Casing	Water	Depth (m)		Samples & Field Tests	Recovered	RL (m)	Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations				
HA		0.10	ES				-			FILL; Clay; pale brown, moderate plasticity, with minor siltstone fragments 5-30mm in diameter, rounded - angular and friable	D	Н	0.10: Environmental sample				
,		0.50	ES				0 <u>.5</u>	\Longrightarrow					0.50: Environmental sample				
•					•		-			BOREHOLE NEL-ENV-BH029 TERMINATED AT 0.60 m Refusal							
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							-										
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	ons	sdale Street ne, Victoria 3	2000				See	GHD Sta	andar	d Sheets for details of abbreviations & basis of descriptions.			GI				





BOREHOLE No. NEL-ENV-BH030 Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Watsonia Rd, Watsonia Easting: 331014.2 m Northing: 5824242.0 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55 Driller: QEST

Drill Rig:

Start Date: 24/04/2018 End Date: 24/04/2018 Logged By: KA Checked By: LPS

		DRILLING AND SAMPLING				MATERIAL									
	_		DRILL	LING AND SAMPLING	_							_			
Drilling	& Casilig	Water	Depth (m)	Samples & Field Tests	Recovered	RL (m)	Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	No.	Consistency Relative Density	STRUCTURE & Other Observations		
A			0.10	ES			-			FILL; Clay; pale brown, moderate plasticity, with minor siltstone fragments 5-30mm in diameter, rounded - angular and friable	D	Н	0.10: Environmental sample		
HA—			0.50	ES			- 0 <u>.5</u> -						0.50: Environmental sample		
Y			1.00	ES			1.0		4	BOREHOLE NEL-ENV-BH030 TERMINATED AT 1.00 m			1.00: Environmental sample		
							-			Refusal			- - -		
							1 <u>.5</u>						- - -		
							2 <u>.0</u>						_ _ -		
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							-						- - -		
							3 <u>.0</u>						- - -		
							3 <u>.5</u>						- - -		
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BOREHOLE No. NEL-ENV-BH031

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Watsonia Rd, Watsonia Easting: 331027.0 m Northing: 5824245.1 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55

Driller: QEST

Start Date: 23/04/2018 End Date: 24/04/2018 Logged By: KA Checked By: LPS

		יחח	LING AND CARROLING					MATERIAL		Checked By: LPS					
		DRIL	LING AND SAMPLING			_		MATERIAL			I				
& Casing	Water	Depth (m)	Samples & Field Tests	Recovered	RL (m) Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations				
		0.10	ES PID = 0.9 ppm				X X X	FILL; Clay, pale brown, moderate plasticity, with minor siltstone fragments 5-30mm in diameter, rounded - angular and friable	D	Н	0.10: Environmental sample				
HA -		0.50	ES PID = 0.8 ppm		0 <u>.</u>		^ × × × × × ×				0.50: Environmental sample				
*		1.00	ES		1 <u>1</u>		X X X X X				1.00: Environmental sample				
QQN		1.50	ES		1.	X	×	CLAY; brown, moderate plasticity BOREHOLE NEL-ENV-BH031 TERMINATED AT 1.60 m		F	1.50: Environmental sample				
					2 <u>.</u>	<u> </u>		1.50 m							
					2.	5									
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						- - -									
					3.	5 - -									
					4 <u>.</u>	<u>-</u> <u>-</u> -									
					4 <u>.</u>	5									
					5 <u>.</u>										
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Melb	Lons	dale Street	t 3000 F: (03) 8687 8111 E: n	nelms:	Se	e GHD S	tandar	d Sheets for details of abbreviations & basis of descriptions.			G				





BOREHOLE No. NEL-ENV-BH032 Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Greenaway St,
Bulleen

Easting: 331029.1 m Northing: 5818542.9 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94

UTM Zone: 55 Driller: Star Drilling Drill Rig: Geoprobe Start/End Date: 1/06/2018 / 1/06/2018

Installation Date: 1/06/2018 Logged By: KA

Checked By: LPS

Bull	een		DRILLIN	· C	1			MATERIAL				INSTALLATION
PROC	BRESS	œ	DRILLIN		_		z			<u>}-</u>	n o	INSTALLATION
BRILLING & CASING		GROUND WATER LEVELS	Depth (m)	Samples & Field Tests	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	MOISTURE	CONSISTENCY RELATIVE DENSITY	MONITORING WELL DETAILS	Components
Asphalt Core			0.50 1.00 1.50 2.00	ES PID = 0.0 ppm ES PID = 0.0 ppm ES PID = 0.0 ppm	-			ASPHALT; black, 70mm, with concrete FILL; Clay, dark brown mottled orange, with organic material, moderate plasticity	D	н		■ Bentonite seal ■ 50mm PN18 uPVC blank casing ■ -
AUGER		-	4.00	ES PID = 0.0 ppm	-			Silty CLAY; grey with sand, low plasticity				_
			6.00	ES PID = 0.0 ppm	5.0				w	S		50mm PM18 uPVC machine slotted casing (0.4 mm aperture)
					-			BOREHOLE NEL-ENV-BH032 TERMINATED AT 6.50 m				

GHD





BOREHOLE No. LFB01 Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Bulleen Rd, Bulleen

Easting: 330734.4 m Northing: 5817363.8 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55 Driller: Star Drilling

Drill Rig: Geoprobe

Start Date: 11/07/2018 End Date: 11/07/2018 Logged By: KA Checked By: LPS

Loc	atlo	n: Bulleer	n Rd, Bulleen	Incl	lination	-90°								
		DF	RILLING AND SAMPLING						MATERIAL					
Drilling & Casing	Water	Depth (m)	Samples & Field Tests	Recovered	RL (m)	Deptin (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations		
A						1			TOPSOIL	D	L	0.00: No odours or staining		
		0.10	ES PID = 0.0 ppm			1	`_^k					0.10: Environmental sample		
						★	\bowtie		FILL; Clay, brown with gravel, sand and silt, minor rock fragments and waste, trace rootlets, moderate plasticity	М	S			
		0.50	Ee			0 <u>.5</u>	XX					0.50: Environmental comple		
		0.50	ES PID = 0.3 ppm			+	XX					0.50: Environmental sample		
¥ I							XX	}						
						\downarrow	$\times\!\!\times$	}						
		1.00	ES			1.0	$\times\!\!\!\times$	\$				1.00: Environmental sample		
		1.00	ES PID = 0.5 ppm			-{	XX					1.00. Environmental sample		
						-6	XX)	ĺ	WASTE; Bricks present, poor sample recovery					
						1								
¥.	1					1 <u>.5</u>								
1						-								
						1								
						1								
						2.0								
						-								
						-								
						1								
						2.5								
						-								
						1								
						X	$\times\!\!\times$		FILL; Clay, dark brown with silt and trace sand, low plasticity with trace rootlets	М	Н			
		2.00	F0			3 <u>.0</u>	XX	<	plasticity with trace rootiets			2 00. 5		
		3.00	ES PID = 0.6 ppm			-8	\Longrightarrow					3.00: Environmental sample		
AUGER						+	XX							
- AC						★	XX							
2						3.5	XX							
						+	XX	}						
20						+	$\times \times$		CLAY; grey - brown, with silt and orange sand, moderate		F			
						F		1	plasticity					
		4.00	ES			4.0		1				4 00: Environmental cample		
		4.00	PID = 0.5 ppm			ŧ						4.00: Environmental sample		
						ŧ		1						
						F								
						4.5								
						F		1						
						ŧ								
3						Ī								
<u> </u>		5.00	ES			5.0			PODELIOLE LEDOT TERMINATED AT THE			5.00: Environmental sample		
		5.00	PID = 0.1 ppm			+			BOREHOLE LFB01 TERMINATED AT 5.00 m			5.00: Environmental sample		
2						+								
3						1								
						5.5								

GHD





BOREHOLE No. LFB02
Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Bulleen Rd, Bulleen

Easting: 330715.4 m Northing: 5817389.0 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55 Driller: Star Drilling

Drill Rig: Geoprobe

Start Date: 11/07/2018 End Date: 11/07/2018 Logged By: KA Checked By: LPS

	DRILLING AND SAMPLING							MATERIAL					
Drilling & Casing	Water	Depth (m)	Samples & Field Tests	Recovered	RL (m)	Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations	
A		0.10	ES PID = 0.0 ppm			-	<i>* * *</i>		TOPSOIL FILL; Clay, brown with minor sand and silt. Moderate plasticity with some rock fragments and rootlets present	D M	L F	0.00: No odours or staining 0.10: Environmental sample	
- НА		0.50	ES PID = 0.5 ppm			0 <u>.5</u>			plasticity with some rock fragments and rootlets present			0.50: Environmental sample	
		1.00	ES PID = 0.5 ppm			1 <u>.0</u>			WASTE; Minor sand and silt, poor sample recovery			1.00: Environmental sample	
*		2.00	ES			1 <u>.5</u>						2.00: Environmental sample	
			PID = 0.2 ppm			2.5			FILL; Clay, dark brown with orange - red. Minor silt and sand. Moderate plasticity with trace rootlets	M	F	-	
AUGER		3.00	ES PID = 0.4 ppm			3.0						3.00: Environmental sample	
V		4.00	ES PID = 0.5 ppm			4.0		< < < < < < < < < < < < < < < < < < <	CLAY; brown mottled orange, with minor silt and trace sand, moderate plasticity			4.00: Environmental sample	
						4.5		-				-	
<u> </u>		5.00	ES PID = 0.3 ppm			5.0			BOREHOLE LFB02 TERMINATED AT 5.00 m			5.00: Environmental sample	
						5.5							





BOREHOLE No. LFB03 Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Bulleen Rd, Bulleen

Easting: 330753.7 m Northing: 5817418.3 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55 Driller: Star Drilling

Start Date: 11/07/2018 End Date: 11/07/2018 Logged By: KA Checked By: LPS

		No: 313500 n: Bulleen R			luced Leve ination: -9		Bearin	g: N/A Drill Rig: Geoprobe			ogged By: KA :hecked By: LPS
		DRIL	LING AND SAMPLING					MATERIAL			
Drilling & Casing	Water	Depth (m)	Samples & Field Tests	Recovered	RL (m) Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations
A		0.10	ES PID = 0.0 ppm		-	<i>* * * *</i>		TOPSOIL	D M	L F	0.10: Environmental sample
HA————————————————————————————————————		0.50	ES PID = 0.4 ppm		- 0 <u>.5</u> - -			FILL; Clay, brown with minor sand, silt, rock fragments and waste bricks, trace rootlets, moderate plasticity			0.50: Environmental sample
		1.00	ES PID = 0.4 ppm		- 1 <u>.0</u> - -			WASTE; Rocks and rubbish, bricks present, minor clay and sand fill			1.00: Environmental sample
*					- 1 <u>.5</u> - -						
		2.00	ES PID = 0.2 ppm		- 2 <u>.0</u> - - -						2.00: Environmental sample
					- 2 <u>.5</u> - -						
AUGER		3.00	ES PID = 0.5 ppm		- 3 <u>.0</u> - -			FILL; Clay, dark brown with minor silt and sand, moderate plasticity	М	Н	3.00: Environmental sample
Α -					3 <u>.5</u> - -						
		4.00	ES PID = 0.3 ppm		- 4 <u>.0</u> - -			CLAY; grey - orange, with minor silt and sand, moderate plasticity		F	4.00: Environmental sample
					- 4 <u>.5</u> -						
		5.00	ES PID = 0.5 ppm		- 5.0 - -			BOREHOLE LFB03 TERMINATED AT 5.00 m			5.00: Environmental sample
					- 5.5						

GHD





BOREHOLE No. LFB04 Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Bulleen Rd, Bulleen

Easting: 330768.0 m Northing: 5817457.2 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55

Driller: Star Drilling Drill Rig: Geoprobe Start Date: 11/07/2018 End Date: 11/07/2018 Logged By: KA Checked By: LPS

		DRI	LLING AND SAMPLING						MATERIAL			
Drilling & Casing	Water	Depth (m)	Samples & Field Tests	Recovered	RL (m)	Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations
A							k , k		TOPSOIL	D	L	0.00: No odours or staining
		0.10	ES			-	£, £			M	S	0.10: Environmental sample
						-	$\otimes \otimes$	4	FILL; Clay, brown with minor sand and silt, trace rock fragments, rootlets and waste, moderate plasticity	IVI	3	
						0.5	\bowtie	4				_
		0.50	ES			_	\bowtie	4				0.50: Environmental sample
						-	$\otimes \otimes$	4				-
ΙŢ						-						
						1.0	$\times\!\!\times\!\!\times$					_
						-			WASTE; Rubbish			
						-						
						_						
+	-					1 <u>.5</u>						_
						-			FILL; Clay, dark brown with minor silt and sand,	M	Н	
						_			moderate plasticity			
						_						
		2.00	ES			2 <u>.0</u>						2.00: Environmental sample
			PID = 0.4 ppm			_						
						_	\bowtie					
						-						-
						2 <u>.5</u>						_
						_						
						-			CLAY; grey - orange, with minor silt and sand, moderate plasticity		F	
						3.0						
		3.00	ES PID = 0.3 ppm			_						3.00: Environmental sample
AUGER -						-						
- AUC						-						
						3.5						-
						-						
						-						
						_						
		4.00	ES			4 <u>.0</u>						4.00: Environmental sample
		1.00	PID = 0.3 ppm			-						·
						_						
						4 <u>.5</u>			CLAY; grey - orange, with minor silt, low plasticity			_
						-						
						_						
						-						
_		5.00	ES PID = 0.1 ppm			5.0			BOREHOLE LFB04 TERMINATED AT 5.00 m			5.00: Environmental sample
			. по – о. г ррпп			_						
						_						
						5.5						

GHD





BOREHOLE No. LFB05 Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Bulleen Rd, Bulleen

Easting: 330770.8 m Northing: 5817490.3 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55 Driller: Star Drilling Drill Rig: Geoprobe

Start Date: 11/07/2018 End Date: 11/07/2018 Logged By: KA Checked By: LPS

		n: Bulleen F	LING AND SAMPLING	incl	ination: -9		Jeann	g: N/A Drill Rig: Geoprobe	MATERIAL Checked By: LPS			
	1	DRIL	LING AND SAMPLING				c			ξį		
Drilling & Casing	Water	Depth (m)	Samples & Field Tests	Recovered	<i>RL (m)</i> Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations	
1		0.10	ES PID = 0.0 ppm		-	<i>k k</i>		TOPSOIL	D	L	0.10: Environmental sample	
					-		< <	FILL; Clay, brown, minor sand and silt, trace rootlets, rock fragments and glass waste, moderate plasticity	М	F		
		0.50	ES PID = 0.1 ppm		0 <u>.5</u> _						0.50: Environmental sample	
HA					_		< <					
		1.00	ES PID = 0.7 ppm		1 <u>.0</u> -		Š	WASTE; Rubbish, steel springs, glass			1.00: Environmental sample	
					-							
X					1 <u>.5</u>						-	
					-							
		2.00	ES		2 <u>.0</u>			FILL; Clay, dark brown, minor silt and sand, moderate plasticity	М	F	2.00: Environmental sample	
			ES PID = 0.2 ppm		-							
					2 <u>.5</u>						_	
					-							
					3.0							
H		3.00	ES PID = 0.3 ppm		-						3.00: Environmental sample	
AUGER					3.5			CLAY; grey - orange, with sand, moderate plasticity				
					3 <u>.5</u>			, , , , , , , , , , , , , , , , , , , ,			-	
					-							
		4.00	ES PID = 0.3 ppm		4 <u>.0</u> -						4.00: Environmental sample	
					_							
					4 <u>.5</u>						-	
					-							
		5.00	ES PID = 0.2 ppm		5.0			BOREHOLE LFB05 TERMINATED AT 5.00 m			5.00: Environmental sample	
1			PID = 0.2 ppm		-							
					5.5							

GHD





BOREHOLE No. LFB06 Sheet 1 OF 1

Datum/Coord.System: MGA94 Start Date: 10/07/2018 End Date: 10/07/2018

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Bulleen Rd, Bulleen

Easting: 330762.2 m Northing: 5817529.3 m Reduced Level:

Bearing: N/A

Inclination: -90°

UTM Zone: 55 Driller: Star Drilling Drill Rig: Geoprobe

Logged By: KA Checked By: LPS

			LING AND SAMPLING			-					>	
& Casing	Water	Depth (m)	Samples & Field Tests	Recovered	RL (m)	Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations
\	0	0.10	ES PID = 0.0 ppm				* *		TOPSOIL	D	L	0.00: No odours or staining 0.10: Environmental sample
	0	1.50	PID = 0.0 ppm ES PID = 0.0 ppm			0.5			FILL; Clay, brown, minor sand and silt, trace rock fragments and trace glass waste, moderate plasticity	М	S	0.50: Environmental sample
									WASTE; Rubbish, concrete, metal pipes			
						1 <u>.0</u>						
						1 <u>.5</u>	.		FILL; Clay, dark brown, minor silt and sand, moderate	М	н	
	2	2.00	ES PID = 0.0 ppm			2 <u>.0</u> - - - 2 <u>.5</u>			plasticity	N		2.00: Environmental sample
	3	3.00	ES PID = 0.2 ppm			3.0			CLAY; grey - orange, minor sand and trace silt, moderate plasticity			3.00: Environmental sample
						3.5			Sandy CLAY; grey - orange, trace silt, moderate plasticity		S	
	4	3.00	ES PID = 0.2 ppm			4.5			Silty CLAY, grey, minor sand, moderate plasticity			4.00: Environmental sample
	5	5.00	ES PID = 0.0 ppm			5.0			BOREHOLE LFB06 TERMINATED AT 5.00 m			5.00: Environmental sample
SHE						5.5 See	GHD Sta	andaro	d Sheets for details of abbreviations & basis of descriptions.			





BOREHOLE No. LFB07 Sheet 1 OF 1

Start Date: 10/07/2018

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Bulleen Rd, Bulleen

Easting: 330752.9 m Northing: 5817553.2 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55

End Date: 10/07/2018 Driller: Star Drilling Logged By: KA Drill Rig: Geoprobe Checked By: LPS

	DRILLING AND SAMPLING								MATERIAL			
Drilling & Casing	Water	Depth (m)	Samples & Field Tests	Recovered	RL (m)	Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations
		0.10	ES PID = 0.0 ppm			-	* * *		TOPSOIL FILL; Clay, brown, minor silt and trace sand, moderate	D M	L F	0.10: Environmental sample
HA————————————————————————————————————		0.50	ES PID = 0.0 ppm			0 <u>.5</u>			plasticity			0.50: Environmental sample
Ī						1 <u>.0</u>	< × × >		WASTE; Rubbish, bricks			- - -
*						1 <u>.5</u>						-
		2.00	ES PID = 0.0 ppm			2 <u>.0</u>			FILL; Clay, dark brown, minor silt and trace sand, moderate plasticity	М	Н	2.00: Environmental sample
						2 <u>.5</u>						- - -
ER		3.00	ES PID = 0.0 ppm			3 <u>.0</u>			CLAY; grey mottled orange, trace silt and trace sand, moderate plasticity		St	3.00: Environmental sample
AUGER						3 <u>.5</u>						: - -
		4.00	ES			4 <u>.0</u>						4.00: Environmental sample
-						- 4 <u>.5</u>			CLAY; becoming sandy			- -
•		5.00	ES			5.0			BOREHOLE LFB07 TERMINATED AT 5.00 m			5.00: Environmental sample
						- - 5.5						





BOREHOLE No. LFB08 Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Bulleen Rd, Bulleen

Easting: 330744.7 m Northing: 5817561.0 m

Reduced Level: Inclination: -90° Bearing: N/A Datum/Coord.System: MGA94 UTM Zone: 55

Driller: Star Drilling Drill Rig: Geoprobe

Start Date: 10/07/2018 End Date: 10/07/2018 Logged By: KA Checked By: LPS

		DRILLING AND SAME	LING				_	MATERIAL		-	
& Casing	Water	Samples & Field Tests	Recovered	RL (m)	Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations
1	0.10	ES PID = 0.0 ppm			_	* *		TOPSOIL; dark brown, rootlets	D	L	0.10: Environmental sample
——————————————————————————————————————	0.50	ES PID = 0.0 ppm			0.5			FILL; Clay, brown, minor silt and trace sand, moderate plasticity	М	S	0.50: Environmental sample
					1 <u>.0</u> - -			WASTE; Rubbish, steel springs			
	2.00	ES PID = 0.0 ppm			1 <u>.5</u> - - - 2 <u>.0</u>			FILL; Clay, dark brown, minor silt and trace sand, moderate plasticity	M	Н	2.00: Environmental sample
					- 2.5 -			CLAY; grey mottled orange, trace silt and trace sand, moderate plasticity		St	
AUGER	3.00	ES PID = 0.0 ppm			3.0						3.00: Environmental sample
	4.00	ES PID = 0.0 ppm			- - 4 <u>.0</u> -			SAND; pale brown - orange, fine grained sand with minor silt and trace clay		F	4.00: Environmental sample
•					4 <u>.5</u> - - - 5.0			Sandy SILT; orange - grey, fine grained sand with trace clay		S	
	5.00	ES PID = 0.0 ppm						BOREHOLE LFB08 TERMINATED AT 5.00 m			5.00: Environmental sample
3HE	<u> </u>				5.5 See		andar	d Sheets for details of abbreviations & basis of descriptions.			_





BOREHOLE No. LFB09 Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Bulleen Rd, Bulleen

Easting: 330760.5 m Northing: 5817565.6 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55 Driller: Star Drilling

Drill Rig: Geoprobe

Start Date: 10/07/2018 End Date: 10/07/2018 Logged By: KA Checked By: LPS

			DRIL	LING AND SAMPLING		inauc				g: N/A Drill Rig: Geoprobe			пескей ву: ГРЗ
Drilling	& Casing	Water	Depth (m)	Samples & Field Tests	Recovered	RL (m)	Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations
^			0.10	FS			-	* *		TOPSOIL	D	L	0.10: Environmental sample
				PID = 0.0 ppm			-			FILL; Clay, brown, minor silt and trace sand, moderate plasticity	М	Н	
HA			0.50	ES PID = 0.0 ppm			0 <u>.5</u>						0.50: Environmental sample
							-	· · · · · · · · · · · · · · · · · · ·		WASTE; Rubbish, concrete blocks			0.80: Slight organic waste odour
			1.00	ES			1 <u>.0</u> -						1.00: Environmental sample
							-	-					
X							1 <u>.5</u>	-					_
							-						-
							2.0			FILL; Silty clay, pale brown - orange, minor sand, low plasticity	М	St	-
			2.00	ES			-						2.00: Environmental sample
							-						-
							2.5						-
							-						
							-	\		SAND; pale brown - orange, fine grained, with trace silt and trace clay		D	
			3.00	ES			3 <u>.0</u>						3.00: Environmental sample
AUGER							-						-
							3 <u>.5</u>						- -
T LIB 00: 1 GTD 1: 14, YEL: CLEB LOG NET INDIVIDUALE BONETHOLE NET-L'EBONE SATA ZIJOIIZATO 13/02							-			CLAY; grey mottled orange, trace silt and trace sand, moderate plasticity		Н	
0.51							-						
, ברי היי			4.00	ES			4 <u>.0</u>						4.00: Environmental sample
L I I							-						-
							4.5						-
							-						-
LOG NEL							-						
T V							5.0			BOREHOLE LFB09 TERMINATED AT 5.00 m			-
							-						
5							-						
Ļ							5.5	CUD O		d Chapta for dataile of abbreviations 0 basis of descriptions			

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BOREHOLE No. LFB10 Sheet 1 OF 1

Client: North East Link Project Project: North East Link Project Project No: 31350060910 Location: Bulleen Rd, Bulleen

Easting: 330778.8 m Northing: 5817556.7 m

Reduced Level: Inclination: -90° Bearing: N/A

Datum/Coord.System: MGA94 UTM Zone: 55 Driller: Star Drilling Drill Rig: Geoprobe

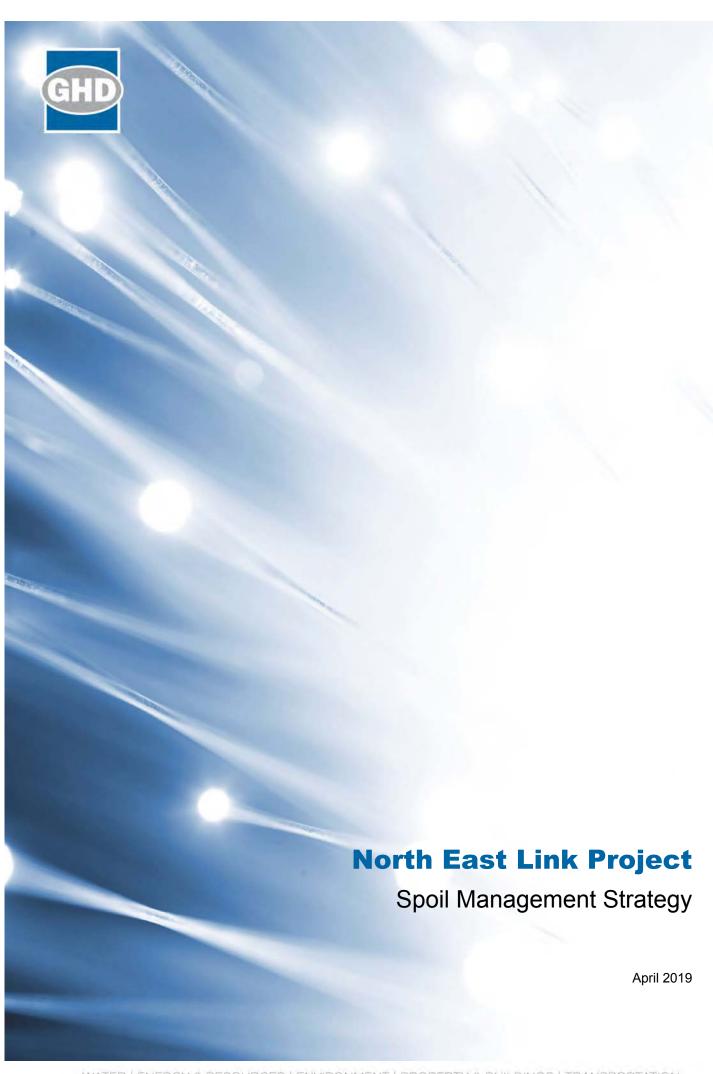
Start Date: 11/07/2018 End Date: 11/07/2018 Logged By: KA Checked By: LPS

	Cath		RILLING AND SAMPLING	inci	Inclination: -90° Bearing: N/A Drill Rig: Geoprobe					Checked By: LPS				
			RILLING AND SAMPLING				_			-\$-				
Drilling	& Casing Water	Depth (m)	Samples & Field Tests	Recovered	RL (m) Depth (m)	Graphic Log	Classification Symbol	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components ORIGIN	Moisture Condition	Consistency Relative Density	STRUCTURE & Other Observations			
1		0.10				k		TOPSOIL	D	L	0.10: Environmental sample			
		0.10	ES PID = 0.0 ppm			- K	×	FILL; Sandstone and sand, pale brown			0.10. Elivionnella sample			
		0.50	ES PID = 0.2 ppm		0 <u>.</u>	5	×	WASTE; Rubbish, bricks and pieces of metal			0.50: Environmental sample			
HA						-								
					1 <u>.</u>	<u>-</u> 0								
						-								
V					1 <u>.</u>	_ _ 5_								
1							Ŷ	FILL; Clay, dark brown, minor silt and sand, moderate plasticity	М	Н				
							X							
		2.00	ES PID = 0.0 ppm		2 <u>.</u>		×				2.00: Environmental sample			
							×	FILL; Sand, brown - orange, fine grained, minor silt, trace clay,		D				
					2_	5	×							
		0.00	50		3_		×							
H H		3.00	ES PID = 0.2 ppm				× ×				3.00: Environmental sample			
19:02 ——AUGER					_			CLAY; grey - orange, minor sand, trace silt, moderate plasticity		Н				
LIB 00.1 GPD 1.14_NEL.GLB LOGNEL NOIN-CORED BORRETOLE NEL-L-BORRES G-7 2/JAIL/2018 15:02					3 <u>.</u>	5								
ZE 0.CT C														
בריקו בריקו		4.00	ES PID = 0.1 ppm		4 <u>.</u>	0					4.00: Environmental sample			
					4 <u>.</u>	5								
100					5.									
T		5.00	ES PID = 0.3 ppm		5.	_		BOREHOLE LFB10 TERMINATED AT 5.00 m			5.00: Environmental sample			
; ;						1								
					5.	5								

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Appendix G – Spoil Management Strategy



This publication is prepared to inform the public about the North East Link. This publication may be of assistance to you but the North East Link Project (a division of the Major Transport Infrastructure Authority) and its employees, contractors or consultants (including the issuer of this report) do not guarantee that the publication is without any defect, error or omission of any kind or is appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication.

Executive summary

The purpose of this Spoil Management Strategy for the North East Link ('the project') is to:

- Outline the proposed approach to spoil management during the project's construction
- Identify feasible options for the management of spoil arising from the project's construction, based on indicative volume estimates for each spoil category
- Identify preferred methods of management of each spoil category consistent with Victoria'
 Environment Protection Act 1970 waste hierarchy and taking into account potential
 human health and environmental risks
- Inform the preparation of a Spoil Management Plan following project approval and before the project's construction started.

Based on preliminary estimates, approximately 6.3 million m³ (*in-situ*) of soil and rock would be excavated to construct North East Link across the three project elements:

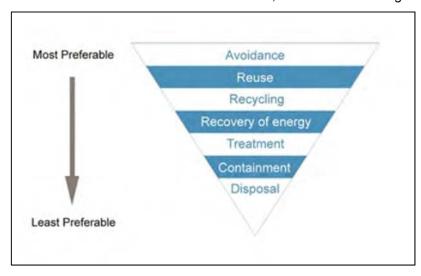
- M80 Ring Road to the northern portal
- Northern portal to southern portal
- Eastern Freeway.

Volumes described below are the volumes of soil and rock to be excavated. Estimated spoil volumes are calculated by multiplying these volumes by a bulking factor.

It is estimated that most soil and rock excavated would comprise Fill Material. Following confirmation of this category, in accordance with the Industrial Waste Resource Guidelines, this material can be moved off-site or reused on-site, and is not regulated by the Environment Protection Authority (EPA) Victoria.

The spoil volume estimates and preliminary classifications completed have estimated that most spoil would be classified as Fill Material (also known as 'clean fill'). The estimates also indicated approximately 257,000 m³ (*in situ*) of Prescribed Industrial Waste (PIW), which will require management. This predominantly consisting of Category C PIW. Further assessment is required to refine this estimate. The assessment has identified that quantities Waste Acid Sulfate Soils (WASS), up to 2.6 million m³ (*in situ*) may be encountered and require management.

Management of spoil is to be undertaken in accordance with the waste hierarchy set out in Victoria's *Environment Protection Act 1970*, illustrated in the diagram below.



In the context of the project, the following assessment of management options was addressed:

- Avoidance preferred but limited options available for this project
- Reuse/recycling preferred and to be applied wherever possible, particularly with respect to Fill Material and WASS off-site
- Recovery of energy unlikely to be practicable, to be further considered once additional field information has been obtained
- Treatment preferred option particularly off-site at a licensed facility for Category A,
 Category B and WASS
- Containment unlikely to be practicable on the basis that soils and rock are being excavated and will need to be relocated; containment options for appropriate material may be considered at the locations of cut and fill tunnels
- Disposal least preferred option but off-site disposal may be required due to time, project area and project design constraints.

It is acknowledged that EPA Victoria has released guidance regarding contaminated spoil management on major infrastructure projects. Based on this guidance it may be possible to apply for a major infrastructure soil management classification.

Management of PIW and WASS is to be detailed in a Spoil Management Plan as part of the Construction Environmental Management Plan (CEMP to be prepared by the construction contractor and approved by EPA Victoria.

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Annexures

Annexure A - Spoil volume estimates

1. Introduction

1.1 Project description

North East Link Project (NELP) was set up by the Victorian Government to oversee the North East Link project ('the project'). The project is a proposed new freeway and standard road connection that would complete the 'missing link' in Melbourne's metropolitan ring road, giving the city a fully completed orbital connection for the first time. North East Link would connect the Western Ring Road (M80) to the Eastern Freeway, and include works along the Eastern Freeway. The project would also support the provision of a range of complementary and associated works, separate from the project. These would be subject to separate regulatory and planning assessment and approval processes.

To facilitate delivery, North East Link would require temporary and permanent land occupation, drainage and flood mitigation works, and the use of tunnel boring machines (TBMs) to construct most of the tunnel length. These works will generate a significant volume of excavated soil that would need to be managed as a portion of the spoil is likely to be contaminated.

1.2 Purpose of this report

The purpose of this Spoil Management Strategy for the North East Link project is to:

- Outline the proposed approach to spoil management during construction of the project
- Identify feasible options for the management of spoil arising from project construction based on indicative volume estimates for each spoil category
- Identify preferred methods of management of each spoil category consistent with the waste hierarchy and taking into account potential human health and environmental risks
- Inform the preparation of a Spoil Management Plan during following project approval and prior to construction commencement.

1.3 Scope

The scope of the SMS addresses the following:

- Spoil generating activities and indicative volume estimates
- Spoil categorisation in accordance with the Environment Protection Act 1970 (Victoria) and the Environment Protection (Industrial Waste Resource) Regulations 2009 (Victoria)
- Spoil management and its implementation in accordance with the waste hierarchy
- On-site spoil management requirements
- Spoil transport requirements
- Requirements for a Spoil Management Plan.

1.4 Project elements

The North East Link project and its key elements are:

- Element 1 M80 Ring Road to the northern portal from the M80 Ring Road at Plenty Road, and the Greensborough Bypass at Plenty River Drive, North East Link would extend to the northern portal near Blamey Road utilising a mixture of above, below and at surface road sections. This would include new road interchanges at the M80 Ring Road and Grimshaw Street.
- Element 2 Northern portal to southern portal from the northern portal the road would transition into twin tunnels that would connect to Lower Plenty Road via a new interchange, before travelling under residential areas, Banyule Flats and the Yarra River to a new interchange at Manningham Road. The tunnels would then continue to the southern portal located south of the Veneto Club.
- Element 3 Eastern Freeway from around Hoddle Street in the west through to Springvale Road in the east, modifications to the Eastern Freeway would include widening to accommodate future traffic volumes and new dedicated bus lanes for the Doncaster Busway. There would also be a new interchange at Bulleen Road to connect North East Link to the Eastern Freeway.

These elements are shown in Figure 1-1.

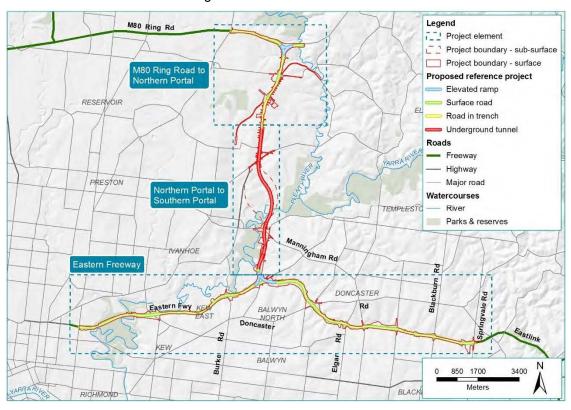


Figure 1-1 Project elements

1.5 Assumptions and limitations

The indicative spoil estimates presented in this document are for *in-situ* volumes of soils and rock to be excavated. No bulking factor has been applied to the *in-situ* volumes and therefore the actual spoil volumes may be up to 30% greater.

The indicative spoil volume estimates were determined using an MX3D model based on the Reference Design. The results are limited by the accuracy of the LiDAR data and feature survey information available for inclusion in the model. The estimates do not distinguish between material types and include existing asphalt and pavement.

Indicative waste categories and volume estimates are based on a limited number of soil sample results and a number of assumptions with regards to the type of contaminating activity identified.

2. Spoil generation

2.1 Spoil-generating activities

Spoil is defined as waste soil or rock resulting from project construction regardless of construction technique. Spoil would be generated during the North East Link construction through a range of activities. These are described in the sections below.

2.1.1 Surface construction earthworks

The project would require earthworks along the majority of the North East Link alignment, in particular for works supporting upgrade works on the M80 Ring Road and Eastern Freeway. The majority of earthworks would involve cut and fill for road widening, development of overpass and shared use pathways and footing excavation.

2.1.2 Cut and cover tunnels

For North East Link, the main tunnel cut and cover tunnel sections are between Windsor Street and Lower Plenty Road Yallambie, Bridge Street and Golden Way, Bulleen and Rocklea Street and the Eastern Freeway Bulleen.

Cut and cover construction involves using excavation equipment to dig a large trench or rectangular hole in the ground which is then covered by a concrete deck. Once the deck is in place, surface activity can largely resume as construction works continue below. The cut and cover structures for the tunnels and ramps would be built "top down".

Construction would commence with installation of retaining walls following by excavation and installation of struts. Once this is complete, soil is excavated to just below the roof slab level of the underground structure and struts are installed to support the retaining walls, which in turn support the soil at the sides.

The roof slab is constructed and decking installed at ground level and the next level of slab is constructed, and the process progresses downwards until the base slab is completed. The installation of sidewalls and a base are constructed and the soil is then backfilled to the top strut level before the strut is removed. This is followed by backfilling the top of the underground structure and reinstating the surface area.

2.1.3 Tunnel boring machine (TBM) tunnels

TBMs would be the method for construction for the majority of the tunnels. A TBM would typically have a rotating cutter head, and behind the cutter head is a chamber from where the excavated spoil is removed. The spoil is typically transferred by a conveyor or slurry pipe to transport the spoil to the main spoil management area at the TBM launch construction compound for removal (to be determined).

The TBMs would be driven from south to north before being dismantled at the northern portal site. The TBMs would be in operation 24 hours per day, seven days per week, progressing at an estimated average rate of 60 metres per week and producing on average 23,000 m³ of spoil per week.

2.1.4 Mined tunnels

Mined tunnel sections would be constructed with road headers at locations where TBMs are unsuitable because of limited available depth to the surface. For North East Link, the mined tunnel section would be adjacent to Bulleen Road between Avon Street and just south of Rocklea Road.

Two road headers would be used with an average production of 1,500 m³ per day, per road header with canopy tubes installed the full length of the tunnel during the mining. A road header is an excavation machine consisting of a boom mounted rotating cutter head on bulldozer style tracks, a loading device, and a crawler track to move the machine forward into the rock face.

Spoil from the cavern excavation would be transported from the road header by conveyor belts or trucks to the main spoil management area at the main TBM launch construction compound for removal (to be determined)..

2.1.5 Sewer tunnel

The tunnel required for the realigned Yarra East main sewer would be constructed on the east of Bulleen Road from Avon Street to the Bulleen Road (adjacent to the Bulleen Swim Centre). This will be achieved through pipe jacking with exception of where it crosses the dam adjacent to the Marles Playing Fields at Trinity Grammar School Sporting Complex, where the sewer tunnel would be constructed using an open trench method and a cofferdam to prevent water entering the trough.

An estimated 9,300 m³ of spoil is expected to be excavated from the tunnel which would be transferred to the surface for the deep, up to 20 metres, section and directly from the excavators for the shallower, up to 6 metre section.

Spoil generated daily would be approximately 90 m³ for pipe-jacking and up to 75 m³ for shaft excavation (*in situ*). This would require up to 10 truck movements per day assuming each truck can remove 10 m³ of spoil from the site per load. Spoil would then be stored temporarily using a spoil storage shed until it is removed.

3. Spoil categorisation

3.1 Applicable legislation and policy

Victoria's *Environmental Protection Act 1970* is a legislative framework that regulates the discharge or emission of waste to water, land or air, and places controls on the disposal and transportation of waste. The Environment Protection Authority (EPA Victoria) has produced Industrial Waste Resource Guidelines (IWRGs) and publications to provide guidance for the management of spoil in Victoria. The following policy, regulations, IWRGs and publications provide guidance in relation to the sampling and categorisation of spoil:

- Environment Protection (Industrial Waste Resource) Regulations 2009
- IWRG600.2 Waste Categorisation (2010)
- IWRG621 Soil Hazard Categorisation and Management (2009)
- IWRG702 Soil Sampling (2009)
- Environment Protection (Scheduled Premises) Regulations 2017
- Industrial Waste Management Policy (Waste Acid Sulfate Soils) (1999)
- EPA Victoria Publication 655.1 Acid Sulfate Soils and Rock (2009)
- Victorian Best Practice Guidelines for Assessing and Managing Coastal Acid Sulfate Soils (2010)

In addition, the Heads of EPAs Australia and New Zealand (HEPA), released its guidance on the management of per- and polyfluorinated alkyl substances (PFAS) in January 2018. The PFAS National Environmental Management Plan (PFAS NEMP) provides assessment guidelines for soil and water and landfill acceptance criteria. Acceptance of PFAS-impacted soil by landfills is still subject to EPA approval.

3.1.1 Waste categories

The categorisation of waste in Victoria is based on two EPA Victoria publications:

- IWRG621 Soil Hazard Categorisation and Management (2009) which provides threshold values for Fill Material and Prescribed Industrial Waste (PIW)
- Publication 655.1 Acid Sulfate Soils and Rock (2009) which provides guidance on the classification and management of WASS.

Based on investigations completed to date, the spoil generated by the project would comprise a combination of Fill Material and Prescribed Industrial Waste (PIW) and waste acid sulphate soil (WASS). Each category is described below.

Fill Material

Fill Material (also known as Clean Fill) is not considered a waste under the IWRG. Therefore, EPA Victoria does not regulate the transport and reuse (on or off site) of Fill Material. However, the Environment Protection Act 1970 places general obligations to prevent adverse impacts on the environment and human health. Where there is potential for adverse impacts from the deposit of Fill Material, advice should be sought from EPA.

Where soil is found to contain elevated levels of contaminants (such as nickel and fluoride) or other constituents that can be demonstrated to be of natural origin and are naturally elevated, the soil may be classified as Fill Material.

Prescribed Industrial Waste (PIW)

Prescribed Industrial Waste (PIW) may arise as a by-product of manufacturing or be a classified as contaminated soil. Guidance in determining the hazard category for contaminated soil can be found in EPA Victoria Publication IWRG621 *Soil Hazard Categorisation and Management* (2009). Category A is the most hazardous decreasing to Category C. Category A contaminated soil requires treatment to reduce or control the hazard before meeting acceptance criteria for disposal at an appropriate EPA licensed facility. Category C and Category B Contaminated soil can be accepted at a landfill or facility licensed by EPA Victoria to accept such waste.

PIW may also contain asbestos containing material (ACM). If PIW contains ACM it would be categorised as:

- Category A or B if the levels of other contaminants present exceed the criteria in EPA Victoria Publication IWRG621 Soil Hazard Categorisation and Management (2009)
- Category C if soil contains asbestos only, that is, no other contaminants exceed criteria set in EPA Victoria Publication IWRG621 Soil Hazard Categorisation and Management (2009)
- Category C if packaged for disposal.

It is possible to apply to EPA Victoria for reclassification of a PIW if it can be shown that a different category is appropriate for the contaminants of concern (e.g. a contaminant is immobilised). The application must justify why the reclassification and proposed management method can achieve the best environmental outcome. Further analytical testing may be required to support the reclassification of soils.

PFAS-impacted soil waste categories are based on the total concentration and leachable concentrations of PFOS+PFHxS and PFOA. These determine what type of landfill may receive the material i.e. unlined, clay/single composite lined or double composite lined landfill cells.

Waste Acid Sulfate Soils (WASS)

EPA Victoria Publication 655.1 *Acid Sulfate Soils and Rock* (2009) provide guidance on the classification and management of WASS. The Department of Sustainability and Environment (DSE) *Victorian Best Practice Guidelines for Assessing and Managing Coastal Acid Sulfate Soils* (2010) also provides detailed information on the management of WASS.

The IWMP defines an acid sulfate soil as any soil, sediment, unconsolidated geological material or disturbed consolidated rock mass containing metal sulfides exceeding criteria published in EPA Victoria Publication 655.1 *Acid Sulfate Soils and Rock* (2009). WASS has the potential to oxidise producing acid which may be harmful to human health and/or the environment. Disturbance of acid sulfate soils and rock can adversely impact environmental quality, agricultural practices, engineering and landscaping works as well as human health *via* ingestion of contaminated water or occupational health and safety for workers.

WASS may present itself in the following forms:

- Actual Acid Sulfate Soil (AASS) Soil containing sulfides which have oxidised (exposed to oxygen and water) producing sulfuric acid – as shown in Figure 3-1, the soil containing sulfides need to be exposed to air (oxygen) and water for become an AASS
- Potential Acid Sulfate Soil (PASS) Soil where the sulfides have not yet oxidised (still contained within oxygen-free or waterlogged soil)
- Acid Sulfate Rock (ASR) Rock containing sulfides which may oxidise producing sulfuric acid.

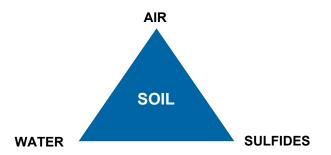


Figure 3-1 The combination that creates Actual Acid Sulfate Soil (AASS)

Other considerations with regards to spoil classification and management include the following exclusions which have been listed by EPA Victoria for the categorisation of contaminated spoil:

- Naturally elevated metals may be granted special approval
- Asbestos contaminated soil must be sent off-site for disposal
- Acid sulphate soil subject to the Industrial Waste Management Policy (Waste Acid Sulphate Soils) best practice (Best Practice Management Plan must be developed by appropriately qualified person)
- Per-and polyfluorinated alkyl substances (PFAS) affected soil to be managed under the National Environment Protection (Assessment of Site Contamination) Measures and EPA Victoria interim position
- Soil containing volatile organic chemicals requires treatment or disposal
- Polychlorinated biphenyl (PCB) soil > 7ppm must be taken off-site for destruction
- Naturally immobilised contaminants such as B(a)P must be classified by hazard can apply to EPA Victoria on a case-by-case basis.

3.2 Spoil volume estimates by category and location

An indicative estimate of the likely spoil the construction of North East Link would generate is provided in the *Spoil volume estimates* report attached as Appendix M to EES Technical report O – Contamination and soil. It was estimated that North East Link would generate approximately 6.1 million cubic metres (m³) of excavated soil and rock (*in-situ*). A summary by element is provided in Table 3.1.

Table 3.1 Indicative spoil volume estimates (in situ) by element

Element	Total estimated volumes (m³)	
Element 1 – M80 Ring Road to northern portal	2,155,000	
Element 2 – Northern to southern portal	3,265,000	
Element 3 – Eastern Freeway	680,000	
Total	6,105,000	

Indicative volumes of Fill Material and Prescribed Industrial Waste (PIW) potentially generated by North East Link project are summarised in Table 3.2.

Table 3.2 Indicative waste category volume estimates

IWRG spoil category		Estimated volumes (m³ in-situ)	General description	
Fill Material		4,845,000	Soil (clay, silt and/or sand), gravel and rock of naturally occurring materials.	
Contaminated Spoil – Prescribed Industrial Waste	Category A	6,000	Spoil with the potential to adversely affect human health and the environment.	
	Category B	16,000	Contaminant levels decrease from Category A to	
	Category C	235,000	C (Category A is the most hazardous).	

Notes:

- 1. All indicative spoil volume estimates are for *in-situ* material (no bulking factor applied).
- 2. IWRG621, Soil Hazard Categorisation and Management (2009) provides the constituent thresholds of contaminants for categorisation of Fill Material and Category A, B and C PIWs.
- 3. Volumes sourced from Spoil volume estimates report, Appendix M, EES Technical report O -Contamination and soil.
- 4. Volumes estimated exclude consideration of acid sulfate soil/rock.

As noted in the *Spoil volume estimates* report (Appendix M, EES Technical report O – Contamination and soil), much of the classification of Category C for the Silurian basement rocks is based on fluoride exceeding the upper limit for Fill Material in EPA Victoria Publication IWRG621 *Soil Hazard Categorisation and Management* (2009). A number of lines of evidence suggest this material could be re-categorised to Fill Material. Re-classification would need to be obtained from EPA Victoria. A reduction of the volume of Category C PIW would provide a significant project benefit and provide more flexibility in spoil management options.

A portion of the spoil generated by the project's construction may also be classified as Waste Acid Sulfate Soil (WASS). WASS includes Potential Acid Sulfate Soil (PASS), Actual Acid Sulfate Soil (AASS) and Acid Sulfate Rock (ASR). An indicative estimate of the volume of WASS the project could generate is summarised in Table 3.3. The spoil volumes estimates by category and source location are provided in the *Spoil volume estimates* report.

Table 3.3 Estimated PASS/AASS and ASR spoil volumes

Spoil category	Estimated volumes (m³ in-situ)
Potential Acid Sulfate Soil (PASS), Actual Acid Sulfate Soil (AASS)	594,000
Acid Sulfate Rock (ASR)	2,630,000

Notes:

- 1. All indicative spoil volume estimates are for in-situ material (no bulking factor applied).
- 2. EPA Publication 655.1 Acid Sulfate Soil and Rock provides the criteria for determination of WASS.
- 3. Volumes sourced from Spoil volume estimates report, Appendix M, EES Technical report Contamination and soil.

The categorisation of Fill Material and Category A, B and C PIWs are determined by constituent thresholds of contaminants set out in EPA Victoria Publication IWRG621 *Soil Hazard Categorisation and Management* 2009. However, due to the limited field data, the ratio of categorised waste has been extrapolated where possible and estimated as required. Further sampling and assessment of waste soil and rock in accordance with the required sampling densities of the IWRG and WASS guidelines would be undertaken for the preparation of a Spoil Management Plan before the project's construction started to provide more certainty about the volumes of waste in each IWRG category.

No attempt has been made to separate WASS from soil categorised under the IWRG. It is expected that most of the WASS would come from excavated moderately weathered to fresh Silurian aged siltstone rock, listed as Fill Material in Table 3.2 above.

The assumptions associated with these estimates are provided in the *Spoil volume estimates* report (Appendix M, EES Technical report O – Contamination and soil).

4. Spoil management approach

4.1 Overview

The waste hierarchy is one of 11 principles of environment protection set out in Victoria's *Environment Protection Act 1970*. The waste hierarchy lists broad management options for waste in order of the most preferable to least preferable, as shown in Figure 4-1. The most preferable method is avoiding and reducing the generation of waste. The least preferable method is disposal to landfill. Management of the spoil generated during North East Link's construction must consider this hierarchy.

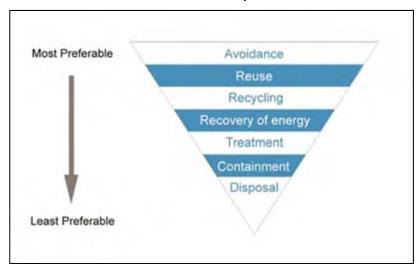


Figure 4-1 EPA Victoria waste management hierarchy

The management of spoil will be highly dependent on the categorisation of spoil generated during the project's construction. The available and preferred management options by spoil category, including examples for consideration, are discussed in the following sections.

For the purposes of the Spoil Management Strategy it is assumed there is currently sufficient capacity at existing landfills and treatment facilities to accommodate the project would generate. It is noted that initial calculations completed for Technical report O – Contamination and soil suggest that conservative volumes of Category A and B soils may exceed landfill capacity. However, the estimates provided are likely to vary significantly from the final volumes, due to the adoption of conservative assumptions in the absence of detailed sampling information. There is also considerable time before the landfill capacity would be needed and it is likely that capacity would be made available as required as the market responded to demand. The contractor will need to include contingencies in their planning to management any shortfall in landfill capacity.

The contractor would be required to engage with relevant waste disposal facilities and other waste management organisations to confirm the availability of management options, and document these options within their Construction Environmental Management Plan (CEMP).

The contractor will also need to consider the management requirements of PFAS-impacted spoil in accordance with the PFAS NEMP.

The use of classifications does not exempt sites from the requirement to obtain a Works Approval as required under the Environment Protection (Scheduled Premises) Regulations 2017 when large quantities (>1,000 m³) of contaminated soil will be retained on site.

An overview of the soil management process has been developed by EPA Victoria as shown in the flowchart in Figure 4-2.

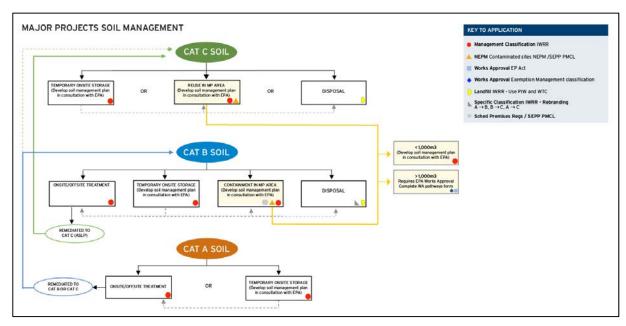


Figure 4-2 Major projects soil management

4.2 Avoidance

Excess spoil generation can be avoided through optimised design, management and engineering where practicable. Several mitigating measures which can be considered for implementation include:

- Refinement of design and construction methods to reduce the volume of spoil produced/ disturbed (where practicable)
- Using engineering measures such as improving the structural properties of in-situ spoil, negating the need for its removal (such as by grouting)
- Minimisation of groundwater disturbance and/or coverage of in-situ PASS to reduce the generation of WASS.

The roadway capacity largely dictates the size and extent of project infrastructure. Modifications to the roadway capacity of North East Link are unlikely at this stage due to the significant capital cost. The project alignment has been selected based on a wide range of economic and political factors and major changes are not practicable.

4.3 Reuse

Reuse of spoil at the site of origin is possible where it meets human health and ecological criteria, and is a preferred option. Spoil designated as PIW (Categories A, B and C) are regulated by EPA Victoria and options for the reuse, treatment or disposal of these materials includes:

- Category A of-site treatment at a licensed facility
- Category B off-site treatment or disposal to a licensed facility, or containment on-site
- Category C disposal to a licensed facility, or reuse on-site

However, disposal of Fill Material does not face these constraints as its movement and disposal is not regulated and Fill Material is a commodity with many viable uses.

Reuse of spoil on North East Link can be split in two categories:

- Reuse within the project
- Reuse outside the project.

4.3.1 Reuse within the project

Spoil could potentially be reused within the project boundary for:

- Fill embankments and beneath ramps
- Restoration of any pre-existing contaminated sites within the project boundary
- Reuse topsoil for site restoration.

However, the potential to reuse spoil within the project is limited, due to the objective of minimising the project footprint and the limitations on space in the developed suburban area. The construction sites are narrow and would be congested with construction-enabling equipment, materials and personnel. However, if a need for spoil is identified, an application for a Major Infrastructure spoil management classification and reuse within the project can be submitted to EPA Victoria's Major Projects Unit.

Fill Material

Fill Material, particularly topsoil, would be recovered and reused wherever practicable, such as for landscaping areas. It is expected the Contractor would adopt innovative approaches to reuse Fill Material wherever possible. In accordance with the Environment Protection Act, any reuse of Fill Material at the receiving site must not have adverse impacts on human health or the environment.

Contaminated spoil (PIW)

Reuse of less than 1,000 m³ of Category C soil and containment of less than 1,000 m³ of Category B soil on-site requires implementation of a Spoil Management Plan prepared in consultation with EPA Victoria. Reuse or containment of soils above these volumes would require an EPA Victoria Works Approval. It is noted that exceptions to reuse and containment exist under EPA Victoria's *Contaminated soil management and reuse on major infrastructure projects*.

Category A spoil cannot be reused or contained on-site.

WASS (AASS, PASS & ASR)

Reuse of WASS is possible if it is treated or managed appropriately. Classifications for PIW may be issued by EPA Victoria in accordance with clause 11 of the Environment Protection (Industrial Waste Resource) Regulations 2009. Classifications can specify spoil management options through conditions such as requirements on auditing, tracking, treatment, storing or monitoring.

WASS can be reused on-site where it meets human health and ecological criteria. This may be achieved through the treatment of spoil and engineering design. Treatment would only be allowed under a Construction Environmental Management Plan (CEMP) prepared in accordance with the Industrial Waste Management Policy (Waste Acid Sulfate Soils) 1998 that has been approved by EPA Victoria. Treatment would likely require neutralising and possibly dewatering before it is allowed to be placed in an area away from where it was excavated. Therefore, reuse on-site of WASS may be considered an impracticable option for North East Link, due to site and program constraints.

Reuse of PFAS-impacted spoil onsite would require approval by the EPA Victoria.

4.3.2 Reuse outside the project

Reuse of spoil material outside the project would need to meet the requirements of the Environment Protection Act, and may be subject to a determination by EPA Victoria. PIW (Category B and C) would need to be treated and reclassified as Fill Material with EPA Victoria approval. Options to reuse material include:

- Construction on other projects
- Manufacturing of construction materials (bricks and tiles)
- Manufacturing of soil conditioners
- Land reclamation
- Land restoration (including filling disused mines or quarries)
- Port and coastal protection works
- Reuse for landfill management.

Options available for the reuse of material are provided in the context of the spoil management hierarchy shown in Table 4.1. In determining whether any of these options are viable, a number of factors must be considered including the timing of other projects, homogeneity of the material, suitability of the waste category for off-site use, transport costs, engineering properties of the waste and treatment requirements.

Fill Material

Fill Material is preferred to be reused on-site wherever possible. However, given the large total volume of Fill Material that North East Link's construction would generate, most would not be able to be reused within the project boundary and would be reused off-site. Disposal of Fill Material is not regulated and it is a commodity with many viable uses.

In accordance with the Environment Protection Act, any reuse of Fill Material at the receiving site must not have adverse impacts on human health or the environment.

Contaminated spoil (PIW)

Contaminated spoil is designated by the Environment Protection Act as PIW once it is removed from its original source. Category A PIW, being the most hazardous, cannot be reused and must be treated and disposed at a licensed treatment facility.

Reuse of Category B and Category C PIW off-site would require treatment (possibly at an off-site licensed treatment facility) and reclassification as Fill Material before its reuse. The Contractor would be expected to conduct a feasibility study/cost benefit analysis for this option before the project's construction started.

WASS (AASS, PASS & acid sulfate rock)

Spoil classified as WASS would require treatment before its reuse and may only occur at premises:

- Licensed to dispose of WASS under the Environment Protect Act
- Where a CEMP, prepared in accordance with the Industrial Waste Management Policy (Waste Acid Sulfate Soils) 1998 has been approved by EPA Victoria.

A combination of licensed receiving facilities or reuse sites approved by EPA Victoria under a CEMP (such as for port construction or maintenance) could be adopted for North East Link's construction. The treatment requirements for reuse of WASS are considered further in Section 4.5.

In accordance with EPA Victoria Publication 655.1 *Acid Sulfate Soils and Rock* (2009), WASS sourced from a subaqueous environment which is intended to be directly disposed of to a marine or estuarine spoil ground does not require a CEMP. EPA Victoria must approve this disposal method, oxidation must be minimised, and disposal carried out in accordance with current best practice for dredging.

Reuse of PFAS-impacted spoil offsite would require approval by the EPA Victoria.

4.4 Recycling and energy recovery

Recycling involves using material that would otherwise be disposed of for another purpose in order to recover some value. For example, concrete can be recycled and reused to make new concrete.

Energy recovery involves using a waste resource to generate energy, such as the combustion of flammable products like asphalt to produce electricity. The processes associated with energy recovery are described in EPA Victoria Publication 1559.1 *Guideline Energy From Waste* (July 2017).

Based on ongoing investigations and the nature of the spoil material being excavated during North East Link's construction, recycling and/or recovery of energy opportunities would unlikely be viable management options for the spoil generated. However, opportunities could be further investigated by off-site treatment facilities utilised and implemented where practicable. Some components of demolition rubble such as asphalt or concrete can be recycled but these materials are not the subject of this report.

4.5 Treatment

4.5.1 Fill Material

No or minimal treatment is required for reuse or disposal of Fill Material. Industrial waste such as bricks and concrete, which may be co-mingled with Fill Material would need to be removed as far as practicable in accordance with the IWRGs.

4.5.2 Contaminated spoil (PIW)

There are various methods for treating PIW depending on the contaminants which are targeted to be removed. EPA Victoria Publication 1589 *Contaminated soil – treatment and disposal* (Draft 2015) requires the spoil producer to conduct an assessment to determine if treatment is a viable option before PIW is able to be disposed of at a landfill, against the following tests:

- (a) Available the PIW can be treated or reprocessed to reduce the requirement for residual management, and technology and facilities necessary to realise this potential are practicably accessible.
- (b) Not available the PIW cannot be treated or reprocessed to reduce the requirement for residual management, or technology and facilities necessary to realise this potential are not practicably accessible.

Category A PIW must be treated and disposed at a licensed treatment facility. Treatment of Category B & C PIW at a licensed treatment facility before its reuse is preferred for North East Link, where practicable. In assessing whether an option is practicable, practicability does not mean the option is the lowest cost option. A preferable option that costs more may still be practicable. EPA Victoria Publication 1589 *Contaminated soil – treatment and disposal* (Draft 2015) provides examples of how to assess the practicability of an option in terms of technical, logistical and financial factors.

Options for treatment of contaminated spoil include:

- Chemical immobilisation and solidification for the treatment of inorganic and organic contaminants
- Bioremediation for the treatment of organic contaminants, including petroleum hydrocarbons
- Soil washing for the treatment of heavy metals, petroleum hydrocarbons, some VOCs, PCBs, PAHs, acids, pesticides, herbicides and cyanides
- Thermal desorption or destruction for the treatment of VOCs, SVOCs, PCBs, PFAS, dioxins and furans.

The application of these treatment technologies for the treatment of spoil would be applied to reduce contaminant concentrations and/or leachability and allow for Category A and Category B soils to be reclassified as either Category C soil or Fill Material post treatment. Reclassification of material would require additional testing and application to EPA Victoria. Treatment and subsequent reclassification by EPA Victoria would require stockpiling of the material pending EPA Victoria determination.

4.5.3 WASS (AASS, PASS and ASR)

EPA Victoria Publication 655.1 *Acid Sulfate Soil & Rock* (2009) and the *Victorian Best Practice Guidelines for Assessing and Managing Coastal Acid Sulfate Soils* (2010) provide guidance on the treatment methods available for WASS. Due to site constraints on North East Link, WASS spoil would need to be treated off-site at the receiving facility. However, if the contractor determines there is sufficient space within another construction site, it could be transported to that site for treatment (with EPA Victoria approval).

The treatment methodology for the WASS would comprise:

- Transport of the WASS in accordance with the requirements detailed in Section 3.1 above
- Weighing the spoil (via weighbridge or similar) and placement into a temporarily stockpile
- Review of previous analytical testing together with real-time measurements of the pH and moisture content of the stockpiled spoil
- Addition of an alkaline neutralisation agent (typically lime) at a rate determined from the testing
- Reuse and/or disposal as appropriate.

Minimisation of stockpile duration times would be undertaken to reduce the volume of neutralisation agent required wherever practicable. Further information about the treatment of WASS is provided in the *Victorian Best Practice Guidelines for Assessing and Managing Coastal Acid Sulfate Soils* (2010).

4.6 Containment

Containment is not considered a viable option for PIW or WASS excavated during the construction of North East Link due to site area constraints and limited space within project boundaries. Where removal of PIW of WASS spoil is not required for construction purposes and can remain *in situ*, it may be viable to assess treatment/management to minimise the potential for migration of contaminants. Containment options would need to be considered for where fill placement is required and risks to human health and the environment are assessed to be acceptable, on a site-specific basis.

4.7 Disposal

Disposal of spoil is the least preferred management option for the project. However, it may be required for PIW, asbestos containing material, WASS and PFAS-impacted spoil, due to project, site and program constraints and the available capacity of treatment facilities.

EPA Victoria has provided an Industrial Waste fact sheet: EPA Publication 1624 (May 2016) which guides the producer and receiver of Fill Material, PIW and WASS. EPA Victoria also provides a list of licensed disposal locations on its website at https://www.epa.vic.gov.au/your-environment/waste/landfills.

EPA Victoria regulates the storage, transport and disposal of waste in Victoria. Spoil disposal methods for North East Link would be selected based on the classification of waste material in the EPA Victoria Industrial Waste Resource Guidelines. Contaminated soil is required to be transported using a vehicle with an EPA Victoria permit accompanied by a waste transport certificate. The transported contaminated soil may only be accepted by a licensed facility, unless exempted from the process by EPA Victoria.

The EPA Victoria also require that disposal of PFAS-impacted spoil be in accordance with the PFAS NEMP. Individual landfills must seek approval from the EPA Victoria to receive such wastes.

Spoil would be transported from the site locations to off-site treatment and/or disposal areas by road trucks. Indicative truck haulage routes have been identified to provide construction-related traffic with efficient access to the freeway and arterial road network and between worksites, minimising the impact on local traffic and local roads wherever possible.

4.8 Asbestos containing material

Asbestos containing material may be encountered in spoil from Bulleen Park and other historical sites and would have to be classified as Asbestos Containing Material (ACM), Asbestos fines or Fibrous asbestos. An occupational hygienist would need to be engaged to prepare an Asbestos Management Plan as part of the Contractor's Construction Environmental Management Plan (CEMP) that would define the procedures and protocol for identifying and managing asbestos containing waste. The asbestos containing waste would be managed in accordance with Victoria's Occupational Health and Safety Act 2004 and Occupational Health and Safety Regulations 2007. ACM would be handled and transported in accordance with IWRG611.1 Asbestos Transport and Disposal 2009.

4.9 Summary

A summary of the available and preferred management options for North East Link by spoil category, including examples for consideration, is provided in Table 4.1.

 Table 4.1 NEL spoil management hierarchy options assessment

Hierarchy	Option	Example of option	Potential Management options by spoil category*			
			Fill Material	Prescribed Industrial Waste (PIW) Category A, B and C	Waste Acid Sulfate Soil (WASS) PASS, AASS and ASR	
Avoidance ¹	Optimised design and management	 Reduction of tunnel length, tunnel diameters, shaft cross-sectional areas and station volumes can be implemented to reduce the total volume of spoil produced. Re-direct the route or interchanges to avoid likely PIW areas 	Preferred but not acceptable to the project. Limited options available, due to surrounding residential construction and the political objective to impact as few residential properties as possible.			
Reuse – within project ^{2,3}	Reuse for Construction within project	 Reuse in project fill embankments and mounds within short haulage distance of source Restoration of any pre-existing contaminated sites within the project boundary Reuse topsoil for site restoration 	Preferred and should be applied wherever possible. Limited available space within project boundary for construction of mounds or other use of soils.	Preferred. Less than 1,000m³ of Category C soil may be able to be reused and less than 1,000m³ of Category B soil may be able to be contained on-site under a soil management plan prepared with EPA Victoria. Additional volumes of Category C or B soil could be retained on-site if a Works Approval is granted. It is noted that the total estimated spoil quantities could not be reused within the alignment. It is not considered feasible to reuse Category A soils on site ^{2,5}	Preferred but unlikely to be feasible due to limited available space for creation of management areas. 3,5	
Reuse – outside project	Reuse for: Construction on other projects Manufacturing of construction materials Manufacturing of soil conditioners Land reclamation Land restoration Port/coastal protection Landfill management.	 Reuse for fill embankments and mounds on surrounding construction projects within an economic haulage distance from site Manufacturing with sand in concrete or shale in bricks or tiles Reuse for land reclamation works subject to master planning, timing and approvals Restore existing contaminated areas, and reuse to fill disused facilities such as mines and quarries, to enable either future development or ecological rehabilitation Reuse in coastal protection works such as beach nourishment, port expansion or rehabilitation Capping of completed landfill cells and daily covering of landfilled waste 	Preferred	Can only be used outside the project following treatment and reclassification. Reuse of Category A soil not permitted off-site.	Preferred. Potential reuse subject to treatment at premises ³ : • Licensed to dispose of WASS under the Environment Protection Act, or • Where an EMP, prepared in accordance with the Policy, has been approved by EPA Victoria.	

Hierarchy	Option	Example of option	Potential Management options by spoil category*		
			Fill Material	Prescribed Industrial Waste (PIW)	Waste Acid Sulfate Soil (WASS)
Treatment	Treatment on site or off- site at licensed facility	Applicable treatment to remove contaminants of concern	Not required	Category A, B and C Preferred off-site (must be treated at a licensed facility). Ability for on-site treatment is limited due to available space and time within the suburban setting. Preferred but unlikely to be feasible ⁵ .	PASS, AASS and ASR Preferred off-site. Treatment must occur at premises³: • Licensed to dispose of WASS under the Environment Protection Act, or • Where an EMP, prepared in accordance with the Policy, has been approved by EPA Victoria. On site treatment not feasible⁵.
Disposal	Off-site disposal as waste	 Disposal at approved landfill facility Disposal at an EPA licensed facility 	Not preferred	Disposal at licensed facility if remains a PIW not preferred. Reuse preferred if reclassified and approved by EPA Victoria.	Not preferred. Dispose off- site at premises ³ : • Licensed to dispose of WASS under the Environment Protection Act, or • Where an EMP, prepared in accordance with the Policy, has been approved by EPA Victoria.

*The presence of PFAS in each category must be taken into account when determining management options and management must be in accordance with the PFAS NEMP.

Notes:

- 1. Avoidance to be targeted through design, management & engineering.
- 2. Any reuse of Category A, B or C PIW in the project area must meet human health and ecological criteria.
- 3. Potential reuse, treatment and/or disposal of WASS must occur at premises:
 - Licensed to dispose of WASS under the Environment Protection Act, or
 - Where an EMP, prepared in accordance with the Industrial Waste Management Policy (Waste Acid Sulfate Soils), has been approved by the EPA Victoria.
- 4. Disposal of PIW only if treatment deemed Impracticable as assessed in accordance with EPA Publication 1589 Contaminated soil treatment & disposal (2015 DRAFT). If treated it may result in re-categorisation as Fill Material with broader reuse options available.
- 5. Not feasible This option is considered either impractical or unfeasible on North East Link due to site restrictions and program constraints.
- 6. Acronyms:
 - PIW Prescribed Industrial Waste as categorised in accordance with the IWR Regulations.
 - WASS Waste Acid Sulfate Soil Comprises disturbed Potential Acid Sulfate Soil (PASS), Actual Acid Sulfate Soil (AASS) and/or Acid Sulfate Rock (ASR).
 - IWMP Industrial Waste Management Policy (Waste Acid Sulfate Soils) 1999

5. Spoil Management Plan

Contractors would be required to develop and implement a Spoil Management Plan consistent with this Spoil Management Strategy and in accordance with relevant regulations, standards or best practice guidelines. The Spoil Management Plan would be developed in consultation with EPA Victoria and would address:

- Complying with applicable regulatory requirements
- Identifying the nature and extent of spoil (clean fill and contaminated spoil)
- Roles and responsibilities
- Storage, handling, transport and disposal of spoil in a manner that protects human health and the environment
- Design and development of specific environmental management plans for temporary stockpile areas
- Identifying and managing potential sites for re-use, management or disposal of any spoil in accordance with the Environmental Protection Act waste management hierarchy
- Monitoring and reporting
- Identifying locations and extent of any PIW or other waste and the method for characterising PIW spoil before excavation
- Identifying suitable sites for disposal of waste
- Remediation management plan for contaminated land and groundwater to remediate contamination caused or exacerbated during the course of the project.

In particular, the Spoil Management Plan would contain:

- A description of soil source, location, quantity and characteristics of the contaminated spoil and the contaminants of concern (including PFAS)
- Spoil categorisation procedure including sampling regime and testing particulars
- The process for acceptance of soils retained and imported to site
- Off-site reuse, treatment and disposal procedures
- Confirmation of the availability of spoil management options
- Management procedure for soils exceeding human health criteria including management of occupational health and safety
- An Asbestos Management Plan or similar prepared by an occupational hygienist that would define the procedures and protocol for identifying and managing asbestos
- A WASS Management Plan in accordance with the guidelines provided in EPA Victoria Publication 655.1 Acid Sulfate Soil and Rock (2009) and the associated Victorian Best Practice Guidelines for Assessing and Managing Coastal Acid Sulfate Soils (2010)
- PFAS management options in accordance with the PFAS National Environment Management Plan
- Spoil tracking system details of each load including mass or volume, spoil categorisation, destination, truck registration and configuration, site departure time and arrival time at receipt facility, soil pH (for WASS), and any necessary transport licences and approvals

- Stockpile Management Plan detailing how spoil would be segregated, contained and managed to mitigate against environmental and human health impacts including erosion and sedimentation control
- Provision of contingencies to address any capacity issues associated with the ability of licensed landfills to receive PIW and other waste – the contingencies must not result in long-term storage of waste on the project
- A management plan for contaminated spoil left exposed after construction works that may
 exceed the beneficial uses of land the contractor would be required to make this
 material safe for the public and the environment during construction and for future use
- Persons responsible for implementation and management of the above.

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Annexure A - Spoil volume estimates

Table sourced from Spoil Volume Estimate (Technical report O - Contamination and Soil – Appendix M). Refer to that report for assumptions.

Location	Estimated in situ	volumes (m	³)			
	Fill	Cat A	Cat B	Cat C	Total PIW	Sub Total
M80 Ring Road to northern portal	2,120,000	-	3,000	32,000	35,000	2,155,000
Greensborough landfill	12,850		1285	11,565	12,850	25,700
Watsonia landfill (AK Lines Reserve)	4500		450	4050	4500	9,000
Watsonia railway station	84,350			8750	8,750	93,100
Yallambie Road fuel station	77,750		825	7425	8250	86,000
Northern portal to southern portal	3,111,000	5,500	11,500	137,000	154,000	3,265,000
Yallambie landfill (Borlase Reserve)	158,300	-	+	35,000	35,000	193,300
Bulleen Industrial Precinct	774,000	5000	10,000	85,000	100,000	874,000
Former Bulleen quarry	-	-	-	-	-	+
Bulleen Park (landfill)	11,000	500	1,500	17,000	19,000	30,000
Eastern Freeway	612,000	500	1,500	66,000	68,000	680,000
Bulleen Park (landfill)	11,000	500	1,500	17,000	19,000	30,000
Former landfill at Camberwell Golf Club	N/A*	-	+	18,500	18,500	18,500
Greythorn landfill	3250	-	-	3250	3250	6500
Koonung Creek Linear Park	63,010	-	-	17,000	17,000	80,010
Former City of Camberwell landfill	N/A*	-	-	10,000	10,000	10,000
TOTALS	5,843,000	6,000	16,000	235,000	257,000	6,100,000
*N/A –no excavation	on is required					

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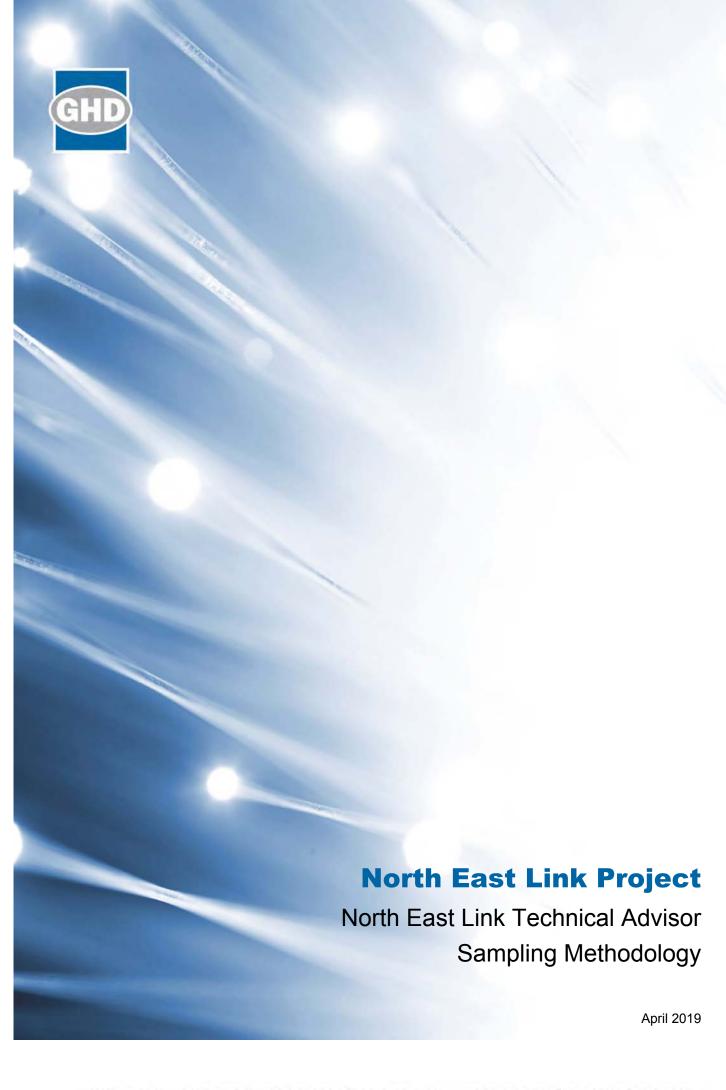
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Appendix H – Soil and groundwater sampling methodology



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Appendix A – Relative percentage difference (RPD) table

1. Introduction

1.1 Purpose of this report

This supplementary report presents the sampling methodology for soil, groundwater and vapour assessment undertaken as part of the assessment for the North East Link EES Technical report O – Contamination and soil.

A more detailed introduction to the project is provided in the EES Technical report O – Contamination and soil.

2. Methodology

2.1 Site assessment

2.1.1 Site clearance

Borehole locations were cleared through a multi-step process, as follows:

- Dial before you dig plans were obtained and the location of the proposed borehole/groundwater well positioned on site. The on-site assessment also included a review of above ground services and other related infrastructure that may have presented a safety hazard.
- The area surrounding the proposed sample location was assessed visually to identify
 features such as service pits, trenches, depressions and marker posts that may indicate
 the presence of an underground service.
- Underground services, as shown on dial before you dig plans were located by a service location contractor using electronic scanning equipment. The broader sample area was also cleared, using the scanning equipment, to identify the potential presence of unknown services.
- Following locator clearance, each sample point was extended using hand auger or a combination of hand auger and high pressure water lance/vacuum extraction. Use of the water lance was minimised to reduce the potential impact on underlying soils.

2.1.2 Soil sampling methodology

Soil samples were collected from soil bores installed specifically for the purpose of collecting samples for environmental analysis and also opportunistically in bores installed for geotechnical or hydrogeological purposes.

The soil sampling process included the following steps:

- Concrete core where concrete or saw cut where asphalt surfaces were present
- Collection of soil samples using the hand auger from the site surface, 0.5 mbgl, 1.0 mbgl, and at 1-metre intervals thereafter, where possible until natural soil is encountered (in the absence of odour and visible signs of contamination)
- The intervals between samples were extended using the hand auger or by water lance and vacuum extraction
- The soil profile was logged as the borehole progressed. All soil types, changes in colour
 or texture, evidence of fill, odour, drilling difficulty, water inflow or loss, core loss, soil
 sample intervals, PID readings etc. were recorded on the soil bore log.
- Each soil sample was separated into two parts.
 - The first part was placed in two 250-millilitre sample jars (minimum headspace).
 Samples were maintained on ice (or in the site fridge) until being transported under Chain of Custody documentation to the analytical laboratory.
 - The second part was placed in a sealed plastic bag, broken up, and allowed to sit at room temperature for subsequent field screening for non-specific combustible vapours, using a photoionization detector (PID).
- A separate sample of soil for acid sulfate analysis was collected in the field and placed within a zip lock bag. The acid sulfate samples were frozen at the site shed before being sorted and selected samples transported to the laboratory for analysis.

 Samples were transported to the laboratory at the end of each sampling day or within 48 hours of collection.

Decontamination practices included the following:

- A clean pair of new, non-powdered, disposable nitrile gloves will be worn immediately prior to sampling and each time a different location is sampled.
- The hand auger was decontaminated prior to drilling/sampling each location and in between each sampling location. Decontamination was completed using one of the two methods outlined below:
 - Extensively pressure wash auger head and lead rod, to remove any attached soil/soil residue until auger is visibly clean; or
 - Scrape all soil fragments off the auger, scrub in a bucket of potable water with phosphate free cleaning solution and rinse in a bucket or under a spray of fresh potable water. Water containing the cleaning solution and rinse water was changed between boreholes.

A minimum of two samples were selected from every borehole and submitted to ALS Environmental Pty Ltd for laboratory analysis. Samples were selected based on observations of potential contamination, such as odour and colour. At least one near surface sample ideally collected from fill soils and one underlying sample from natural soils was submitted for analysis. All samples were submitted for the screen of analytes outlined in the Industrial Waste Resource Guidelines (IWRG) document 621 – *Soil Hazard Categorisation*. The IWRG 621 screen is considered satisfactory for an assessment of likely contamination and also permits consideration of offsite disposal classification.

The following sample naming convention was followed: NEL-(borehole number)-(depth of sample).

Soil samples had been collected at the locations shown in Figures 6 to 16 in Appendix A of EES Technical report O – Contamination and soil. Locations were based on the outcome of the site historical assessment, site walkover, underground service location and assessment of area sensitivity (by the project Stakeholder Engagement Team).

Soil samples recovered for assessment of acid sulphate soil and rock potential were placed immediately on ice and stored in a freezer prior to delivery to the laboratory for analysis. The location of the samples recovered specifically for this purpose as at the time of drafting this report are provided in Figures 19 to 23, Appendix A of EES Technical report O – Contamination and soil..

2.1.3 Groundwater well installation

The Contaminated Land team located and installed eight groundwater wells along the North East Link alignment. Another five groundwater wells were installed by the Geotechnical and hydrogeological team. These wells, plus an additional eight existing wells, were sampled for the purpose of assessing the presence of contaminants of concern.

The locations of the monitoring wells are shown on Figures 17 and 18 in Appendix A of EES Technical report O – Contamination and soil. Bore logs with construction details are presented in Appendix F of Technical report O – Contamination and soil.

The wells were installed in accordance with Bore Construction Licenses obtained from Southern Rural Water. For monitoring wells, the following method was used:

- The upper 1.5 metres of each bore was completed using the procedure outlined above for installation of soil bores.
- From a depth of approximately 1.5 mBGL boreholes were extended to a depth of approximately 2 metres below the water table. The water table was assessed on a site by site basis looking for issues such as moisture inflow into the well and loss of dust.
- Typically, three metres of machine slotted, threaded, 50- millimetre class 18 PVC were installed at the base of each hole before being cased to the surface. Graded washed sand was placed to 0.5 metres above the top of the screened interval, followed by approximately 1 metre of bentonite chips and then cement grout to the ground surface.
- The soil/rock profile was logged as the borehole progressed. All factors such as soil types, changes in colour or texture, evidence of fill, odour, drilling difficulty, water inflow or loss, core loss, soil sample intervals and PID readings were recorded on the bore log.
- Bore logs for groundwater wells are presented in Appendix F of EES Technical report O –
 Contamination and soil.
- Field measurement of VOC concentrations were conducted at selected depths at each location using a PID.
- Groundwater monitoring were developed using disposable bailers. Each well was developed with the objective of removing fines from the bore (as practicable).
- Groundwater wells were surveyed for elevation and location to Australian Height Datum
 (AHD) and Australian Mapping Grid (AMG). Reduced Levels are presented in the
 groundwater gauging table in Appendix J of EES Technical report O Contamination and
 soil.
- It is noted that boreholes drilled by the geotechnical or hydrogeological team were advanced through siltstone rock, using a triple-barrel diamond core technique. This technique is generally adopted where higher quality rock is encountered or where greater geological detail is required and provides a continuous core sample.

2.1.4 Groundwater sampling

Groundwater gauging, sampling, decontamination and sample handling procedures were conducted in general accordance with EPA Victoria Publication 669: *Groundwater Sampling Guidelines* (EPA Victoria, 2000) and EPA Victoria Publication IWRG701: *A Guide to the Sampling and Analysis of Waters, Wastewaters, Soils and Wastes* (EPA, 2009).

Groundwater level measurements were recorded at monitoring well locations using an oil/water interface probe to determine the depth to the groundwater table and the presence or absence of light non-aqueous phase liquid (LNAPL)

Groundwater sampling was undertaken as part of this scope of work using low flow/Micropurge techniques. Samples were collected once field parameters (pH, electrical conductivity, redox potential, temperature and dissolved oxygen) were observed to have stabilised, to ensure the samples were representative of the formation water.

Appropriate quality control measures were implemented in the field during sampling. The oil/water interface meter and low flow pump were decontaminated between groundwater bore locations with Decon 90 solution and rinsed with potable water and deionised water.

All water samples were collected into sample containers prepared by the analytical laboratory. After preparation and labelling, the samples together with Chain of Custody documentation were stored with ice in a cooler while on-site and in transit to Australian Laboratory Services (ALS).

The details of well gauging, purging, sampling and field-testing were recorded on groundwater sampling recording forms, provided in Appendix I of EES Technical report O – Contamination and soil.

Groundwater samples were analysed for CoPC identified during the site historical assessment of a broad suite of parameters including general chemistry parameters, sulfate reducing bacteria, dissolved metals, benzene, toluene, ethylbenzene, xylenes, and naphthalene (BTEXN), hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), phenols, pesticides, polychlorinated biphenyls (PCBs), volatile and semi-volatile organic compounds (VOCs/SVOCs), and per-and polyfluorinated alkyl substances (PFAS).

2.1.5 Vapour / Gas

The only soil vapour / gas assessment undertaken as part of the project was completed as part of the landfill assessment. Those works are addressed in Appendix K of EES Technical report – Contamination and soil.

2.2 Quality assurance/Quality control (QA/QC)

QA/QC samples were samples were generally collected in accordance with guidance presented in Australian Standard AS414482.1 and included collection of samples outlined below. The detail on blind samples were recorded and maintained on ProjectWise throughout the project.

- Duplicate samples (blind replicate) for analysis by the primary laboratory. Duplicate samples were collected at a rate of 1 in 20 primary samples. Duplicate samples were labelled with a QC prefix with no association to the sample location. Duplicate samples were analysed for the same suite as the primary sample.
- Triplicate samples (split sample) for analysis by the secondary laboratory. Triplicate samples were collected at a rate of 1 in 20 primary samples. Triplicate samples were labelled with a QC prefix with no association to the sample location. Triplicate samples were analysed for the same suite as the primary sample.
- Trip blank samples were collected at a rate of one per day, per team. The trip blank samples were prepared by the laboratory and were carried in the eskies with primary samples. Trip blank samples were analysed for volatile compounds. Trip blank samples were labelled with a 'TB' prefix.
- Field blank samples were collected at a rate of one per day, per team. The field blank sample involved the collection of a water sample from laboratory prepared deionised water in the field. Field blank samples were labelled with a FB prefix.
- Rinsate samples were collected at a rate of one per day, per team. Rinsate samples were
 collected by flushing a cleaned piece of sampling equipment with deionised water and
 collecting the flushed water. The sampling equipment was rotated and included items
 such as a glove, hand auger and groundwater pump. The rinsate samples were labelled
 with a RB prefix and analysed for

It is noted the procedures outlined above were not followed by the geotechnical team at the start of the project and thus during the collection of opportunistic samples. However, the quantity of QA/QC samples collected since is considered satisfactory to address the limitations of that data.

3. Data validation

Analytical data validation is the process of assessing whether data are in compliance with method requirements and project specifications. The primary objectives of this process are to ensure that data of known quality are reported, and to identify if the data can be used to fulfil the overall project objectives.

The data validation guidelines adopted are based upon data validation guidance documents published by the United States Environmental Protection Agency (US EPA). These include: US EPA Contract Laboratory Program for Organic Data Review, October 1999; US EPA Contract Laboratory Program for Inorganic Data Review, July 2002; and the US EPA Guidance on Environmental Data Verification and Data Validation, November 2002. The process involves the checking of analytical procedure compliance and an assessment of the accuracy and precision of analytical data from a range of quality control measurements, generated from both the field sampling and analytical programs.

Specific elements that have been checked and assessed for this project include:

- Preservation and storage of samples upon collection and during transport to the laboratory
- Sample holding times
- Use of appropriate analytical and field sampling procedures
- Required limits of reporting
- Frequency of conducting quality control measurements
- Laboratory blank results
- Field duplicate and triplicate results
- Laboratory duplicate results
- Matrix spike (MS) results
- Surrogates spike results
- Review of chromatograms (if applicable)
- The occurrence of apparently unusual or anomalous results, such as laboratory results that appear to be inconsistent with field observations or measurements.

Specific elements that have been checked and assessed for the project are detailed below.

A list of relative percentage differences (RPDs) are presented in 0, herein. RPDs were reported in excess of guidelines for a number of metals. However, these are not atypical for heterogeneous soils and do not suggest any significant issues with the sampling procedures.

3.1 Analytical data quality summary

3.1.1 Soil

A review of the analytical results relative to observations made during the fieldwork program did not identify any anomalous data. The table below details findings of the data quality review.

Project number:

60539390

Validation Nick Laurie

Date: 06/06/2018

by:

Client:

North East Link Project

Site:

North East Link Project

Matrix type:

Soil

Data

Nick Laurie

Date: 06/06/2018

verified by:

Primary samples:

116

Laboratory:

reference:

ALS, Eurofins

Lab

EM1807708, EM1806904, EM1806989, EM1807528,

EM1802327, EM1802348, EM1802868, EM1803435, EM1801471, EM1801849, EM1801198, EM1803702, EM1803248, EM1805006, EM1804004, EM1805014, EM1804502, EM1802868, EM1805002, EM1803587, EM1803919, EM1806138, EM1805158, EM1805857, EM1806394,

EM1805929, EM1807041,

Project Nazuha Manager: Rosli

EM1806356, 593673, 591177, 595959

Key Issues:

No QA/QC issues were identified in the field or laboratory datasets that are expected to have a material implication to decision-making on the

project.

Field Quality Assurance and Quality Control

Sampling personnel All sampling was conducted by GHD personnel between 10 January and

27 April 2018.

Sampling Methodology Samples were collected using nitrile gloves.

Chain of Custody (COC) Chain of custody documents were completed by field staff.

Analysis Request Laboratory analysis requests and sample receipt notifications were

reviewed and approved by the PM.

Field Blank Field blank samples were collected at a frequency of one per day of

sampling (eleven in total). Concentrations were reported below the limit of reporting (LOR) for all analytes tested, with the following exceptions:

- Fluoride in FB103 (0.3 mg/L), sampled 13 April 2018;

Copper in FB300 (0.003 mg/L), sampled 23 April 2018; and

- Copper in FB301 (0.003 mg/L), sampled 24 April 2018.

Although the above field blank samples reported concentrations of fluoride and copper, respectively, these detections are at trace level and several orders of magnitude below the sample concentrations. These concentrations, most likely present in the deionised water supplied by the

laboratory for field use, do not reflect atmospheric conditions.

Rinsate Blank Rinsate blank samples were collected at a frequency of one per day of

sampling (twelve in total). Concentrations were reported below the limit of reporting (LOR) for all analytes tested, with the following exceptions:

- Fluoride in RB103 (0.2 mg/L), sampled 13 April 2018;
- Fluoride in RB300 (0.6 mg/L), sampled 23 April 2018;
- Copper in RB300 (0.003 mg/L), sampled 23 April 2018;
- Copper in RB301 (0.004 mg/L), sampled 24 April 2018; and
- Copper in RB302 (0.003 mg/L), sampled 27 April 2018.

Although the above rinsate samples reported concentrations of fluoride and copper, respectively, these detections are at trace level and several orders of magnitude below the sample concentrations. These concentrations, most likely present in the deionised water supplied by the laboratory for field use, do not reflect cross sample contamination between sampling locations.

Trip Blank

Trip blanks were included at frequency of one per cooler (eleven in total). Concentrations were not detected above the LOR for all analytes tested.

Frequency of field QC

Field duplicates were collected at a rate of 4.3% (below expected rate of 5%), and field triplicates were collected at a rate of 2.5% (below expected rate of 5%).

Handling and preservation

Primary, duplicate and triplicate groundwater samples were received preserved and chilled at the laboratory.

For batches where temperature was measured, sample receipt temperatures were within (3.4-6.0°C) the recommended range (≤6°C) for batches EM1802245, EM1806904, EM1803919, EM1803248, EM1801849 and EM1804502. For other batches (EM1801198, EM1806356, EM1804004, EM1806989, EM1805158, EM1803724, EM1805002, EM1803587, EM1805929 and EM1801471), sample receipt temperatures were above the recommended range (6.3-14.6°C). Sample receipt temperatures for triplicate samples were not collected/reported. For samples above the recommended temperature range, data interpretation is not likely affected as the TRH/BTEXN concentrations in all samples are below LOR (orders of magnitude below guideline criteria), with the exception of NEL-BH128_1.2m, NEL-BH140_0.2m and NEL-BH179_0.1m where heavy end TRH fractions are minor. For these samples, data interpretation is also considered not to be affected.

All samples were received at the laboratory in appropriate sample containers.

Laboratory QA/QC

Tests requested/reported

Samples were analysed and reported as requested on the Chain Of Custody (COC).

Holding time compliance

Samples were extracted and analysed within recommended holding times, with the following exceptions:

- NEL-ENV-BH028_1.5-1.6 and NEL-ENV-BH025_1.0-1.1 in batch EM180778 for non-volatile leach (3 days overdue);
- RB300 and FB300 in batch EM1806904 for pH (7 days overdue);
- RB301 and FB301 in batch EM1806904 for pH (6 days overdue);
- RB302 and FB302 in batch EM1806989 for pH (3 days overdue);
- NEL-ENV-BH030_0.0-0.1 in batch EM1807528 for pH (9 days overdue), total cyanide (1 day), PCBs (1 day), MAHs (8 days), naphthalene (8 days), VHCs (8 days), phenols (1 day), PAHs (1 day), OCPs (1 day) and TPH/TRH (8 days);
- NEL-BH125_0.4, NEL-BH125_0.75, NEL-BH125_1.0, NEL-BH125_1.5, NEL-BH126_0.3, NEL-BH125_3.0 in batch EM1803435 for total recoverable mercury (8 days);
- NEL-BH125_3.0 in batch EM1803435 for total recoverable mercury (2 days);
- NEL-BH106_2.0m and NEL-BH106_3.0m in batch EM1801198 for pH (1 day);
- NEL-BH109_1.1m in batch EM1805006 for non-volatile leach (7 days);
- RB102 and FB102 for pH (2 days);
- FB103 and RB103 in batch EM1804502 for pH (2 days);
- FB104 and RB104 in batch EM1805002 for pH (3 days);
- NEL-BH140_0.2m in batch EM1805015 for non-volatile leach (10 days);
- RB101 and FB101 in batch EM1803724 for pH (2 days);
- FB200 and RB200 in batch EM1803919 for pH (6 days);
- FB105 and RB105 in batch EM1805158 for pH (4 days);
- NEL-BH151_1.5m in batch EM1805857 for pH (10 days), MAHs (7 days), naphthalene (7 days), VHCs (7 days) and TPH/TRH (7 days);
- FB106 and RB106 in batch EM1805929 for pH (3 days); and
- RB107 and FB107 in batch EM1806356 for pH (3 days).

Laboratory Accreditation

The laboratory analysis was conducted by ALS Environmental Pty Ltd (Melbourne) a National Association of Testing Authorities (NATA) accredited laboratory. The triplicate sample was analysed at Eurofins MGT (Melbourne), also a NATA accredited laboratory.

Frequency of laboratory QC

The laboratory reported a sufficient frequency of quality control samples to assess whether the results have been reported to an acceptable accuracy and precision, with the following exceptions:

- Matrix spikes and laboratory duplicates for PAH/phenols, PCBs, semivolatile organic compounds and TRH semivolatile fractions in EM1806904 and EM1806989;
- Matrix spikes for hexavalent chromium, PCBs, semivolatile organic compounds, total cyanide, total fluoride, total mercury, Total Metals, TRH semivolatile fractions and VOCs (ultra-trace) in EM1807528:
- Laboratory control spikes for hexavalent chromium in EM1801471 and EM1801849;
- Laboratory duplicates and matrix spikes for PAHs/phenols in EM1805006;
- Laboratory control samples for hexavalent chromium and laboratory duplicates and matrix spikes for PAHs/ phenols, PCBs, semivolatile organic compounds and TRH semivolatile fractions in EM1804004;
- Laboratory duplicates and matrix spikes for PAHs/phenols, PCBs, semivolatile organic compounds and TRH semivolatile fractions and matrix spikes for fluoride and total cyanide in batch EM1804502:
- Laboratory control samples for hexavalent chromium in batch EM1802245;
- Laboratory duplicates and matrix spikes for PAHs/phenols, PCBs, semivolatile organic compounds, TRH semivolatile fractions in batch EM1805002;
- Laboratory control samples for hexavalent chromium, and matrix spikes for PAH/phenols in batch EM1803587;
- Laboratory duplicates and matrix spikes for PAH/phenols in batch EM1805015:
- Laboratory duplicates and matrix spikes for PAH/phenols, PCBs, semivolatile organic compounds, TRH semivolatile fractions, and laboratory duplicates for fluoride in batch EM1803724;
- Laboratory duplicates and matrix spikes for PAH/phenols, semivolatile organic compounds and TRH semivolatile fractions in batch EM1803919:
- Laboratory duplicates and matrix spikes for PAH/phenols, semivolatile organic compounds, TRH semivolatile fractions, and matrix spikes for PCBs in batch EM1805158;
- Matrix spikes for PCBs, semivolatile organic compounds, total cyanide, TRH sermivolatile fractions in batch EM1805857;
- Laboratory duplicates and matrix spikes for PAHs/phenols, PCBs, semivolatile organic compounds in batches EM1805929 and EM1806356; and
- Laboratory duplicates and matrix spikes for TRH semivolatile fractions in batch EM1805929.

Method Blank

Method blank concentrations were not detected above the LOR for all analytes tested.

Laboratory duplicate RPDs

Laboratory duplicate Relative Percentage Differences (RPD) were within control limits. The laboratory duplicate RPDs are presented in the laboratory Quality Control Report.

Laboratory control spike

LCS recoveries were within control limits, with the following exceptions:

DATA VALIDATION REPO	RT
recovery	 2-4 dimethylphenol (122%), where the recovery was greater than the upper control limit (43-120%) in batch EM1803248; alpha-BHC (125%), where the recovery was greater than the upper control limit (68-122%) in batch EM1803248;
	 total PCBs (153%), where the recovery was greater than the upper control limit (63-118%) in batch EM1804502;
	 2.4 dinitrophenol (135%), where the recovery was greater than the upper control limit (23-125%) in batch EM1804502;
	 tetrachloroethene (139%), where the recovery was greater than the upper control limit (75-119%) in batch EM1804502;
	 2.4 dinitrophenol (133%), where the recovery was greater than the upper control limit (21-130%) in batch EM1804502;
	 2.4 dinitrophenol (132%), where the recovery was greater than the upper control limit (23-125%) in batch EM1805002;
	 hexachlorobutadiene (60.4%), where the recovery was less than the lower control limit (63-126%) in batch EM1805002;
	 1.2.4 trichlorobenzene (60.8%), where the recovery was less than the lower control limit (62-119%) in batch EM1805002;
	- TPH C10-C14 (142%), where the recovery was greater than the upper control limit (58-134%) in batch EM1805002; and
	- TRH C10-C16 (131%), where the recovery was greater than the upper control limit (58-122%) in batch EM1805002.
Matrix spike recovery	All AECOM Matrix Spike (MS) recoveries (where reported) were within control limits.
0	

Surrogate spike recovery Surrogate spike recoveries were within control limits, with the following exceptions:

- 1.2 dichlorobenzene-D4 (121%), where the recovery was greater than the upper data quality objective (31-117%) in sample NEL-BH109_0.2m.

DATA VALIDATION REPO	DRT				
QA/QC Data Evaluation					
Comparison of Field Observations and Laboratory Results	No anomalous results between field observations and analysis results were noted.				
Data transcription	A random 10% check of the laboratory results identified no anomalies within the electronic data, the laboratory reports, and tables generated b AECOM.				
Limits of reporting	LORs were sufficiently low to enable assessment against adopted guideline criteria.				
Field duplicate RPDs	RPDs exceeded control limits for the following sample analysis. (Sample with higher reported concentrations are in bold). NEL-BH137_0.1m and QC1000 for arsenic (91%); NEL-ENV-BH030 0.0-0.1 and QC3000 for arsenic (89%); and				
	NEL-ENV-BH030_0.0-0.1 and QC3000 for lead (33%).				
	The higher concentration should be considered for site interpretation.				
Field triplicate RPDs	RPDs exceeded control limits for the following sample analysis. (Sample with higher reported concentrations are in bold). NEL-BH179_1.5m and QC2002 for lead (46%); NEL-BH179_1.5m and QC2002 for nickel (42%);				
	NEL-BH179_1.5m and QC2002 for zinc (42%); NEL-BH179_1.5m and QC2002 for fluoride (32%);				
	NEL-ENV-BH030_0.0-0.1 and QC4000 for lead (46%).				
	NEL-BH151_1.5m and QC2001 for copper (40%); NEL-BH151_1.5m and QC2001 for lead (50%); and				
	NEL-BH151_1.5m and QC2001 for zinc (33%).				
	The higher concentration should be considered for site interpretation.				
Chromatograms					
	NA				
Other					
Ionic Balance	NA				
Conversions	As reported by laboratory				
Sum totals	0 x LOR, 0.5 x LOR, 1 x LOR for non-detects, TRH C10-C40, total xylenes, sum of BTEX laboratory reported.				

3.1.2 Groundwater

The table below details the finds of the data quality review.

DATA VALIDATION REPORT

Project 60539390 Validation Nick Laurie Date: 12/06/2018

number: by:

Client: North East Link Project

Site: North East Link Project

Matrix type: Groundwater Data Nick Laurie Date: 12/06/2018

verified

by:

Primary 5 samples:

Laboratory: ALS, Eurofins

Lab 584938, 585222, 585329, 594757 **Project** Nazuha **reference:** Manager: Rosli

Key As no field duplicate or triplicates were collected during fieldworks, the

Issues: assessment of data repeatability is limited.

Field Quality Assurance and Quality Control

Sampling personnel All sampling was conducted by GHD personnel on 12 February, 15 to 16

February 2018 and 17 April 2018.

Sampling Methodology Samples were collected using low flow technique.

Chain of Custody (COC) Chain of custody documents were completed by field staff.

Analysis Request Laboratory analysis requests and sample receipt notifications were

reviewed and approved by the PM.

Field Blank Field blank samples were not collected during these sampling rounds.

Rinsate Blank Rinsate blank samples were collected at a frequency of one per day of

sampling (four in total). Concentrations were reported below the limit of reporting (LOR) for all analytes tested, with the exception of chloride in RB01 / 120218 (2.1 mg/L). Samples collected on 12 February 2018 reported concentrations of chloride > 2,800 mg/L, and therefore data interpretation is not affected. For sample RB05 / 160218, VOC analysis was not conducted as VOC vials were not collected. Therefore, the effectiveness of the decontamination procedure is limited to all analytes except TRH and BTEX constituents in samples NEL-BH062 A and NEL-

BH125.

Trip Blank Trip blank samples were not collected during these sampling rounds.

Frequency of field QC Field duplicates and triplicates were not collected during these sampling

rounds. It is noted sample QC1 was collected in batch 585329 and is assumed to be a duplicate sample; however the parent sample for this QC sample has not been noted and is therefore unknown. Therefore, as no

field duplicate or triplicates were collected during fieldworks, the

assessment of data repeatability is limited.

DATA VALIDATION REP	ORT
Handling and preservation	Primary and duplicate groundwater samples were received preserved and chilled at the laboratory. For Eurofins primary batches (585222, 585329, 594757 and 594938), a sample receipt temperature was not reported, however an attempt to chill the batches was noted.
	All samples were received at the laboratory in appropriate sample containers.
Laboratory QA/QC	
Tests requested/reported	Samples were analysed and reported as requested on the Chain Of Custody (COC).
Holding time compliance	Samples were extracted and analysed within recommended holding times.
Laboratory Accreditation	The laboratory analysis was conducted by Eurofins MGT (Melbourne), a NATA accredited laboratory.
Frequency of laboratory QC	The laboratory has not reported whether a sufficient frequency of quality control samples have been provided, to assess whether the results have been reported to an acceptable accuracy and precision.
Method Blank	Method blank concentrations were not detected above the LOR for all analytes tested.
Laboratory duplicate RPDs	Laboratory duplicate Relative Percentage Differences (RPD) were within control limits. The laboratory duplicate RPDs are presented in the laboratory Quality Control Report.
Laboratory control spike recovery	LCS recoveries were within control limits
Matrix spike recovery	All AECOM Matrix Spike (MS) recoveries (where reported) were within control limits, with the exception of magnesium and sodium, where the recoveries (131% and 134%, respectively) were greater than the upper control limits (70-130% range) for anonymous sample M18-Ap23598 in primary batch 594938.
Surrogate spike recovery	Surrogate spike recoveries were within control limits.

DATA VALIDATION REPO	ORT			
QA/QC Data Evaluation				
Comparison of Field Observations and Laboratory Results	Field notes for this scope of works are not available for comparison with laboratory results.			
Data transcription	A random 10% check of the laboratory results identified no anomalies within the electronic data, the laboratory reports, and tables generated by AECOM.			
Limits of reporting	LORs were sufficiently low to enable assessment against adopted guideline criteria, with the following exceptions: - Protocol LOR for benzo(a)pyrene (1 μg/L) above guideline adopted criteria (GAC) (0.01 μg/L); - Protocol LOR for vinyl chloride (1 μg/L) above GAC (0.3 μg/L); - Protocol LOR for hexachlorobutadiene (1 μg/L) above GAC (0.7 μg/L); - Protocol LOR for chlordane (1 μg/L) above GAC (0.08 μg/L); - Protocol LOR for DDT (0.1 μg/L) above GAC (0.01 μg/L); - Protocol LOR for endrin (0.1 μg/L) above GAC (0.02 μg/L); - Protocol LOR for DDT (0.1 μg/L) above GAC (0.09 μg/L); - Protocol LOR for heptachlor (0.1 μg/L) above GAC (0.09 μg/L); - Protocol LOR for toxaphene (10 μg/L) above GAC (0.09 μg/L); - Protocol LOR for omethoate (2 μg/L) above GAC (1 μg/L); - Protocol LOR for azinphos methyl (2 μg/L) above GAC (0.02 μg/L); - Protocol LOR for chloropyrifos (20 μg/L) above GAC (0.01 μg/L); - Protocol LOR for diazinon (2 μg/L) above GAC (1 μg/L); - Protocol LOR for dichlorvos (2 μg/L) above GAC (1 μg/L); - Protocol LOR for dimethoate (2 μg/L) above GAC (1 μg/L); - Protocol LOR for fenitrothion (2 μg/L) above GAC (0.02 μg/L); - Protocol LOR for fenitrothion (2 μg/L) above GAC (0.02 μg/L);			
	 Protocol LOR for malathion (2 μg/L) above GAC (0.05 μg/L); Protocol LOR for parathion (2 μg/L) above GAC (0.004 μg/L); Protocol LOR for terbufos (2 μg/L) above GAC (0.9 μg/L); and Protocol LOR for trifluralin (5 μg/L) above GAC (4.4 μg/L). 			
Field duplicate RPDs	Field duplicates were not collected as part of this work.			
Field triplicate RPDs	Field triplicates were not collected as part of this work.			
Chromatograms				
	NA			
Other				
Ionic Balance	NA			
Conversions	As reported by laboratory			
Sum totals	0 x LOR, 0.5 x LOR, 1 x LOR for non-detects, TRH C10-C40, total xylenes, sum of BTEX laboratory reported.			

Annexures

GHD | Report for North East Link Project - North East Link Technical Advisor, 3135006

Annexure A – Relative percentage difference (RPD) table

Column			Lab Report Number Field ID Sampled Date/Time	EM1803587 NEL-BH137_0.1m 22/02/2018 15:00	EM1803587 QC1000 22/02/2018 15:00	RPD	EM1803587 NEL-BH137_0.1m 22/02/2018 15:00	EM1803587 QC2000 R 22/02/2018 15:00	EM1805857 PD NEL-BH151_1.5m 23/03/2018 15:00	EM1805158 QC1001 23/03/2018 15:00	RPD	EM1805929 NEL-BH179_1.5m 9/04/2018 15:00	EM1805929 QC1002 RPE 9/04/2018 15:00	EM1807528 NEL-ENV-BH030_0.0-0.1 23/04/2018	EM1806904 QC3000 RF 23/04/2018	D NE	EM1805929 EL-BH179_1.5m /04/2018 15:00	593673 QC2002 9/04/2018 15:00	RPD 1	EM1807528 NEL-ENV-BH030_0.0-0.1 23/04/2018	595959 QC4000 RPE 23/04/2018	EM1805857 D NEL-BH151_1.5m 23/03/2018 15:00	591177 QC2001 RI 23/03/2018 15:00	:PD
Column	Analyse	Unite	EOL	ī							_					÷			$\overline{}$					=
Scheller M. M. M. Martiner M.	C6-C9 fraction				<10	0		<10	0 <10		0		<10 0	<10			<10	<20	0	<10	<20 0	<10		
Column	C10-C14 fraction	mg/kg	50 : 20 (Interlab)	<50	<50	0	<50	<50	0 <50	<50	0	<50	<50 0	<50	<50 0		<50	<20	0	<50	- 20 0	<50	<20	0
Services 19		mg/kg	100 : 50 (Interlab)			0				<100											<50 0	<100	<50	0
Secretary 14. 12. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	C6-C10 fraction	mg/kg mg/kg	100 : 50 (Interiab) 10 : 20 (Interiab)	<100 <10		0		<100	0 <100	<100		<100		<100 <10	<100 0	-		<00 <20		<100 <10	<su 0<="" td=""><td></td><td><su :<="" td=""><td>0</td></su></td></su>		<su :<="" td=""><td>0</td></su>	0
Trees	>C10-C16 fraction	mg/kg		<50	<50	0			0 <50	<50		<50			<50 (<50	<50		<50	<50 0		<50	0
Tree	>C16-C34 fraction	mg/kg		<100	<100	0	<100	<100	0 <100	<100	0	<100	<100 0	<100	<100 (<100	<100	0	<100	<100 0	<100	<100	0
The color The	>C34-C40 fraction		100	<100	<100	0	<100	<100	<100	<100	0	<100	<100 0	<100	<100 0	_	<100	<100		<100	<100 0	<100	<100	0
September 1961 1961 1961 1961 1961 1961 1961 196		mg/kg mg/kg	0.2 : 0.1 (Interlab)			0										-								
Services 1.5 1	Ethylbenzene	mg/kg	0.5: 0.1 (Interlab)	<0.5	< 0.5	0	<0.5	<0.5	0 <0.5	<0.5	0	<0.5	<0.5 0	<0.5	< 0.5		<0.5	<0.1	0	<0.5	<0.1 0	<0.5	<0.1	0
THE STATE OF STATE AND STA	m&p-Xylene	ma/ka	0.5: 0.2 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0 <0.5	< 0.5	0	<0.5	<0.5 0	<0.5	< 0.5	1	<0.5	<0.2		< 0.5	<0.2 0	< 0.5	<0.2	0
September 1989 1	o-Xylene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0 <0.5	<0.5	0	<0.5	<0.5 0	<0.5	<0.5	-	<0.5	<0.1	0	<0.5	<0.1 0	<0.5	<0.1	0
STATE STATE OF STATE		mg/kg	0.5			0					0								0					
Column	Acenaphthylene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0 <0.5	<0.5	0	< 0.5	<0.5 0	< 0.5	< 0.5	_	< 0.5	<0.5	0	<0.5	<0.5 0	<0.5	<0.5	0
Column	Acenaphthene	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0 <0.5	<0.5	0	<0.5	<0.5 0	<0.5	< 0.5	_	<0.5	<0.5	0	<0.5	<0.5 0	<0.5	<0.5	0
TABLE STATE OF STATE		mg/kg	0.5			0													0					
Company Comp	Phenanthrene			<0.5	<0.5	0	<0.5	<0.5	0 <0.5	<0.5	0	< 0.5	<0.5 0	< 0.5	< 0.5	_	< 0.5	<0.5		< 0.5	<0.5 0	<0.5	<0.5	0
Section Manufactures (Section 1) 15	Fluoranthene	mg/kg	0.5	<0.5	< 0.5	0	<0.5	<0.5		<0.5		<0.5	<0.5 0	<0.5	< 0.5	_	<0.5	<0.5		<0.5	<0.5 0	<0.5	< 0.5	0
Second S		mg/kg	0.5		<0.5	0				<0.5					<0.5	1	<0.5	<0.5	0	<0.5	<0.5 0		<0.5	0
Security (CAP) 10			0.5			0					0							-0.6	0		-0.6			0
Section Page 15	Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5	1.2	1.2	0	1.2	1.2	0 1.2	1.2	ō	1.2	1.2 0	1.2	1.2)	1.2	1.2	0	1.2	1.2 0	1.2	1.2	ŏ
The Company of the Co	Chrysene	mg/kg	0.5	<0.5	<0.5	0	<0.5	< 0.5	0 <0.5	<0.5		<0.5	<0.5 0	<0.5	< 0.5		<0.5	<0.5		<0.5	<0.5 0	<0.5	<0.5	0
Secretary No. 1, 1965, 1		mg/kg	0.5	<0.5	<0.5	0		< 0.5	0 <0.5			< 0.5			< 0.5	1	<0.5	<0.5		<0.5	×0.5 0	<0.5	<0.5	0
Secret 1.5 Secretary 15			0.5	<0.5	<0.5	0	<0.5	<0.5	U <0.5 0 ≤0.5	<0.5		<0.5	<0.5 0	<0.5	<0.5	+	<0.5	<0.5		<0.5	<0.5 0	<0.5	<0.5	0
Section Company Comp	Indeno(1,2,3-cd)pyrene	mg/kg	0.5			0		< 0.5	0 <0.5		0				< 0.5	1	<0.5	<0.5	0		<0.5 0		< 0.5	0
Properties Color	Naphthalene	mg/kg	1: 0.5 (Interlab)	<1	<1	0	<1	<1	0 <1	<1	0	<1		<1	<1 (_	<1	<0.5		<1	<0.5 0	<1	<0.5	0
Character Company 100	Phenol	ma/ka	1 : 0 5 (Interlab)	<1	<1	0	<1	<1	0 <1	4		<1	<1 0	<1	<1 (<1	<0.5		<1.	<0.5 0	<1	< 0.5	0
Statement of Company 1, 54 formers 1, 54	2-Chlorophenol	mg/kg	0.03 : 0.5 (Interlab)			0															<0.5 0			
Chapter	z-metnylphenol (o-Cresol) 28.4-Methylphenol (m8.p.Cresol)	mg/kg mg/kg	1 : U.Z (Interlab) 1 : 0.4 (Interlab)	<1				<1	0 <1	- <1	0	<1	<1 0		<1 (+	<1	<0.2			<0.2 0	<1	<0.2	0
Application	2-Nitrophenol	ma/ka	1			0					0				<1 (+	<1	<1			<1 0			ŏ
According Acco	2,4-Dichlorophenol	mg/kg	0.03 : 0.5 (Interlab)	< 0.03	<0.03	0	< 0.03	<0.03	0 <0.03	<0.03		<0.03	<0.03 0		< 0.03		<0.03	<0.5	0	<0.03	<0.5 0	< 0.03	<0.5	0
Applications Appl 151 55 Intelligible Appl A	2.4-Dimethylphenol			<1	<1	0	<1	<1	0 <1	<1		<1	<1 0	<1	<1 ()	<1	< 0.5	0	<1	<0.5 0	<1	<0.5	0
54.5 Feathers 1.5	2,6-Dichlorophenol	mg/kg	0.03 : 0.5 (Interlab)	<0.03	<0.03	0		<0.03	0 <0.03	<0.03	0	<0.03		<0.03	<0.03	4	<0.03		0	<0.03	<0.5 0	<0.03	<0.5	0
645 164	4-Unioro-3-methylphenol 2.4.6-Trichlorophenol	mg/kg	0.03 : 1 (Interlab) 0.05 : 1 (Interlab)			0																		
St.	2,4,5-Trichlorophenol	mg/kg	0.05 : 1 (Interlab)	<0.05	<0.05	ŏ	<0.05	<0.05	0 <0.05	<0.05		<0.05	<0.05 0	<0.05	<0.05		<0.05	<1	ő	<0.05	<1 0	< 0.05	31	ŏ
Personal members of the De 1 foreign of the personal pers	2,3,5,6-Tetrachlorophenol	mg/kg	0.03	< 0.03		0						< 0.03		<0.03			<0.03					< 0.03		
Participation of the participa	4,6-Dinitro-2-methylphenol	mg/kg	5		<5	0				<5		-6	<5 0	<5	<5 (<5				<5 0	<5	<5	0
64-0-1	Pentachlorophenol	ma/ka	0.2 : 1 (Interlab)	<0.2	<0.2		<0.2	<0.2	0 <0.2	<0.2	0	<0.2	<0.2 0	<0.2	<0.2 (_	<0.2	<1	0	<0.2	<1 0	<0.2	<1 1	0
Content and defendement March 20 Defended 4		mg/kg mg/kg	0.05 K			0													0		-6 0		-6	0
September Physics Ph	2-Cyclobeyul-4 6-dinitronhenol	mo/ko	5 - 20 (Interlah)	-6	-6	0				-6		-6		-6	-6 (×5	-20			±20 0	-6		0
Commit Page Sci. Territoria d.5	4-Nitrophenol	ma/ka	5		<5	0	<5	<5	0 <5	<5	0	-6		-6	<5 (<5	-6	0	<5	<5 0	<5	<5	0
Mesercon Inglight 1.7 Extendible 1.8		mg/kg	5 : 20 (Interlab)		<5	0							<5 0		<5 (_		<20			<20 0		<20	0
Appendix Company Com		mg/kg	0.5 : 1 (Interlab)			0		<0.5								_					<1 0		<1	0
Continum		mo/ko	5 : 2 (Interlah)	6	16	91	6	6	0 45	40.1		-6		5			×0.1	41	0	5	63 23	-65	21	0
Coper (aphg 8	Cadmium	mg/kg	1 : 0.4 (Interlab)	<1	<1		<1	<1	0 <1				<1 0		<1 (1		<0.4	0	ব	<0.4 0	<1	<0.4	0
Lead	Copper	mg/kg	5	13	14	7	13	13	0 6	6		13	11 17	22	22 (_		15	14	22	29 27		9 4	40
Series S				<5	<5	0	<5	<5	0 9	10		10		20	28 3	3		16	46	20			15 5	50
Series S	Mickel	mg/kg		14	14	0	14	14	0 <2	10	11	12	11 17	49	42 1		42	20	42	42 49	53 10	*Z	12 2	20
Sept		mg/kg	5 : 2 (Interlab)	<5	<5	0		<5	0 <5	<5	0	-6		<5	<5 (<5	-2	0	<5	<2 0	<5	<2	0
Text Text		mg/kg	2:0.2 (Interlab)	<2	<2	0	<2	<2	0 <2	<2	0	-2	<2 0	<2	<2 (<2	<0.2	0	<2	<0.2 0	<2	<0.2	0
Considerate Spring 102 - 05 (Imericals) col. col	Tin	mg/kg	5 : 10 (Interlab)	<5	<5	0	<5	<5	0 <5	<5	0	-6	<5 0			_	<5	<10	0	<5	<10 0	<5	<10	0
12-Debriospherene englig 002 - 06 (heritab) -0.012 -0.02 -	Chlorobenzene	mg/kg	0.02 · 0.6 (Interlab)			8				-0.02	0										72 20 20 0		-0.5	0
14-Distributionement September 1002 16 (Internal) 1002	1.2-Dichlorobenzene	mg/kg	0.02 : 0.5 (Interlab)	<0.02	<0.02	0	<0.02	<0.02	0 <0.02	<0.02	0	<0.02	<0.02 0	<0.02	<0.02 €		<0.02	<0.5	0	<0.02	<0.5 0	<0.02	<0.5	0
1.1-Obtionedment egylg 001:06 (humbh) -0.011 -0.011 0 -0.	1,4-Dichlorobenzene	ma/ka	0.02 : 0.5 (Interlab)	<0.02		0				<0.02		< 0.02	<0.02 0				<0.02	<0.5	0	<0.02	<0.5 0	<0.02	<0.5	0
1.1-Obtionedment egylg 001:06 (humbh) -0.011 -0.011 0 -0.	1,2,4-Trichlorobenzene	mg/kg	0.01 : 0.5 (Interlab)	< 0.01	< 0.01	0	<0.01	<0.01	0 <0.01	<0.01	0	<0.01	<0.01 0	<0.01	<0.01 0		<0.01	<0.5	0	<0.01	<0.5 0	< 0.01	<0.5	0
60+2 Obstoorberger englig 60+3 obstoorberger		mg/kg mg/kg	0.02 : 0.5 (Interlab)	<0.02	<0.02	0	<0.02	<0.02	0 <0.02	<0.02	0	<0.02	<0.02 0	<0.02	<0.02	,	<0.02	<0.5		<0.02	<0.5 0	<0.02	<0.5	0
Part 2 Debte Part 2 Debte		ma'ka	0.01 : 0.5 (Interiab)			0					0					+								
1.1 Trickhorscheide englag 0.07 0.0 1.0 0.0	trans-1,2-Dichloroethene	mg/kg	0.02 : 0.5 (Interlab)	< 0.02	<0.02	0	< 0.02	<0.02	0 <0.02	<0.02		< 0.02	<0.02 0	<0.02	< 0.02	ᆂ	<0.02	<0.5	0	<0.02	<0.5 0	< 0.02	<0.5	0
12-Deleterorderies esplig 022 - 05 (Intentials) = -0.022	1,1,1-Trichloroethane	mg/kg	0.01 : 0.5 (Interlab)	<0.01	<0.01	0	<0.01		0 <0.01	<0.01	0	<0.01	<0.01 0	<0.01	<0.01	4	<0.01	<0.5		<0.01	<0.5 0	<0.01	<0.5	0
11.2 Princhisophares regula 0.04 - 0.6 Intendable - 0.04 -	Carbon Tetrachloride	mg/kg	0.01 : 0.5 (Interlab)	<0.01	<0.01	0	<0.01	<0.01		<0.01	0	<0.01	<0.01 0	<0.01	<0.01 (-	<0.01	<0.5		<0.01	<0.5 0	<0.01	<0.5	0
11.2 Princhisophares regula 0.04 - 0.6 Intendable - 0.04 -		mg/kn	0.02 : 0.5 (Interiab)			0					0					+			0					
Tenzelmontenteme englig 002:16 (intential) 4012 4022 0 402	1,1,2-Trichloroethane	mg/kg	0.04 : 0.5 (Interlab)	<0.04	<0.04	0	<0.04	<0.04	0 <0.04	<0.04	0	<0.04	<0.04 0	<0.04	<0.04	ட	<0.04	<0.5	0	<0.04	<0.5 0	<0.04	<0.5	0
11.1.5 Texaskonostene englig 0.01 - 6 ferental) - 4.011 - 4.011 - 0 - 4.011 - 4.011 - 0 -	Tetrachloroethene	ma/ka	0.02 : 0.5 (Interlab)	<0.02	<0.02	0	<0.02	<0.02	0 <0.02	<0.02	0	<0.02	<0.02 0	<0.02	<0.02		<0.02	<0.5	0	<0.02	<0.5 0	<0.02	<0.5	0
Debtomenshare mghq 04.15, filmshale 0.4.2 0.4.4 0.		mg/kg	0.01 : 0.5 (Interlab)			0					0													
Chirordem Englig 002:-06 (Imendals) -0.02 -0				<0.4		0				<0.4	0			<0.4			<0.02			<0.4		<0.4	<0.5	ŏ
Chirordem Englig 002:-06 (Imendals) -0.02 -0	Hexachlorobutadiene			<0.02	<0.02	0	<0.02	<0.02	0 <0.02	<0.02		<0.02	<0.02 0	<0.02	< 0.02	1	<0.02	<0.5	0	<0.02	<0.5 0	<0.02	<0.5	0
Paciety Paci		mg/kg	0.02 : 0.5 (Interlab)	<0.02		0		<0.02	0 <0.02	<0.02				< 0.02	<0.02		<0.02			<0.02		<0.02	<0.5	0
Metrin majka 033-106/friendesh -0.03 -0.03 0.1 -0.03 -0.		mg/kg	40 : 100 (Interlab)			26					10				330 3				32				380 1	14
Debtrin mg/kg 003:0.05 (referable) -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.05 0 -0.03 -0.05 0 -0.03 -0.05 0 -0.03 -0.05 0 -0.03 -0.05 0 -0.03 -0.05 0 -0.03 -0.05 0 -0.05 0 -0.05 -0.05 0 -0.05	Porycniorinated Biphenyls Aldrin				<0.1	0		<0.1		<0.1	0			<0.1		+	<0.1		0	<0.1			<0.1	0
198HC mp/s 053:056/intentable -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.03 -0.05 0 -0.05	Dieldrin	mg/kg	0.03 : 0.05 (Interlab)	<0.03	<0.03	0	<0.03	<0.03	0 <0.03	<0.03	0	<0.03	<0.03 0	<0.03	<0.03		<0.03	<0.05	ő	<0.03	<0.05 0	<0.03	< 0.05	0
	a-BHC	mg/kg	0.03 : 0.05 (Interlab)	<0.03	<0.03	0		<0.03		<0.03	0	<0.03	<0.03 0	<0.03			<0.03		0	<0.03			<0.05	0
SHEET Control Contro	b-BHC	mg/kg	0.03 : 0.05 (Interlab)	<0.03	<0.03	0	<0.03	<0.03		<0.03		<0.03	<0.03 0	<0.03			<0.03			< 0.03		<0.03	<0.05	0
Section Control Cont	d-BHC	mg/kg	0.03 : 0.05 (Interlab)	<0.03	<0.03	0	<0.03	<0.03	0 <0.03	<0.03		<0.03	<0.03 0	< 0.03	<0.03	4	<0.03	<0.05		<0.03	<0.05 0	<0.03	<0.05	0
	grono (Lindane)	mg/kg	u.us . U.ub (Intenab)	<0.03	<0.03	U	<u.u3< td=""><td><0.03</td><td>v <0.03</td><td><0.03</td><td>U</td><td>₹0.03</td><td><0.03 0</td><td><0.03</td><td><0.03</td><td>+</td><td><0.03</td><td><0.05</td><td>0</td><td><0.03</td><td><u.u5 0<="" td=""><td><0.03</td><td><0.05</td><td>v</td></u.u5></td></u.u3<>	<0.03	v <0.03	<0.03	U	₹0.03	<0.03 0	<0.03	<0.03	+	<0.03	<0.05	0	<0.03	<u.u5 0<="" td=""><td><0.03</td><td><0.05</td><td>v</td></u.u5>	<0.03	<0.05	v
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Appendix I – Laboratory reports

Available on request

Appendix J – Tables of results

Appendix J Table 1 Summary of Groundwater Gauging Data



Well ID	Date (dd.mm.yyyy)	Time (hh.mm)	Depth to Water (m TOC)	Comments
	18.09.2017	10.51		Prior to development
	11.01.2018	10.43		Prior to development
	22.01.2018	11.34	4.838	
	15.02.2018	14.10	4.952	
NEL-BH004	22.02.2018	10.01	5.059	
	01.03.2018	12.15	5.098	
(deep)	23.03.2018	8.50	5.253	
` ''	20.04.2018	-	5.383	
	22.06.2018	11.17	5.403	
	20.07.2018	9.26	5.323	
	20.07.2010	0.20	0.020	
	18.09.2017	10.50	4.422	Prior to development
	11.01.2018	10.10		Prior to development
	22.01.2018	11.30	4.350	
-	15.02.2018	13.30	4.582	_
NEL-BH004A	22.02.2018	9.57	4.706	_
INCC-DI 1004A	01.03.2018	11.55	4.857	-
(shallow)	23.03.2018	8.45	5.099	_
(ondirent)	20.04.2018	-	5.266	-
-	22.06.2018	11.20	4.997	
-	20.07.2018	9.27	4.897	
-	20.07.2016	9.21	4.097	•
	21.09.2017	9.38	2 220	Prior to development
_		7.54		гног to development
-	18.10.2017		3.531 3.631	
-	19.01.2018	8.20		
NEL-BH005	22.02.2018	12.00	3.606	
_	23.03.2018	10.45	3.527	
_	19.04.2018	-	3.578	
_	19.07.2018	14.36	3.697	-
	18.09.2017	14.15	-	Prior to development, dry @ 19.721, one gatic bolt missing
NEL-BH008				
NEL-BH009				Not installed
	18/09/2017	15.00	20.875	Prior to development
	18/10/2017	12.47		needs grout
NEL-BH010	20/11/2017	14.05		needs grout
	18.09.2017	17.05	7.552	Prior to development
	18.10.2017	15.09	7.601	
NEL-BH011	21.11.2017	10.50	7.601	-
	18.09.2017	16.50	4.731	Prior to development
-	18.10.2017	14.42	4.701	-
NEL-BH012	21.11.2017	10.25	4.693	-
-	21.11.2011	10.20	7.053	
	18.09.2017	16.28	5.425	Prior to development
-	18.10.2017	13.40		One gatic bolt missing
NEL-BH013	21.11.2017	9.39	5.612	
	21.11.2017	3.33	5.012	
NEL-BH014	18.09.2017	15.50	5.000	Prior to development
(deep)		1	1	1

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Well ID	Date	Time	Depth to Water	Comments
Well ID	(dd.mm.yyyy)	(hh.mm)	(m TOC)	Comments
NEL DUOLLA	18.09.2017	15.55	-	dry @ 4.330m Prior to development
NEL-BH014A (shallow)				
(Sitallow)				
	18.09.2017	15.19		entire gatic under water
NEL-BH015	18.10.2017	13.12		needs grout
INCL-DITIOTS	20.11.2017	14.35	1.433	needs grout
	18.09.2017	11.52		Prior to development
	20.09.2017	9.43		Prior to development
	18.10.2017	8.19	5.318	
	20.11.2017	8.55	5.456	
NEL-BH028	22.02.2018	12.28	5.276	
	28.02.2018	12.05	5.369	
	23.03.2018	11.05	5.400	
	19.04.2018	-	5.409	-
	18.09.2017	13.00	5.523	Prior to development
	23.02.2018	13.00		Could not locate well - covered by grass
	20.03.2018	13.00		Prior to development
NEL-BH029	22.03.2018	13.25	6.367	Gatic within triangle of three new saplings
NEL-DHU29	19.04.2018	-	6.284	-
	21.06.2018	14.12	5.991	-
	19.07.2018	14.05	6.133	-
	18.09.2017	13.35	6.186	Prior to development
	21.09.2017	13.30		Prior to development
	18.10.2017	11.05	6.265	-
	20.11.2017	11.58	6.341	-
	21.12.2017	14.36	6.177	-
	19.01.2018	9.52	6.096	-
	13.02.2018	12.30	6.236	-
	23.02.2018	11.09	6.304	
NEL-BH031	27.02.2018	10.50	6.403	-
	08.03.2018	9.40	6.476	-
	22.03.2018	11.35	6.583	-
	19.04.2018	-	6.641	-
	23.04.2018	12.00	6.650	-
	04.05.2018	9.10	6.662	-
	21.06.2018	12.58	10.292	Still recovering from pumping test
	19.07.2018	11.23		Datalogger in well, logging every 4hrs
-				

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Well ID	Date	Time	Depth to Water	Comments
Well ID	(dd.mm.yyyy)	(hh.mm)	(m TOC)	Comments
	18.09.2017	14.35	15.202	Prior to development
NEI BUIDO	18.10.2017	11.56	16.135	-
NEL-BH032	21.11.2017	9.07	16.203	-
	18.09.2017	14.45	17.177	Prior to development
NEL-BH033	18.10.2017	11.45	17.208	
NEL-BH033	21.11.2017	8.52	17.239	
	18.09.2017	11.59	3.062	Prior to development
	20.09.2017	9.14	3.095	Prior to development
	18.10.2017	8.08	3.288	=
	20.11.2017	8.20	3.393	-
NEL-BH037	22.02.2018	12.11	3.265	-
	23.03.2018	10.55	3.524	-
	16.04.2018	13.00	3.584	-
	19.04.2018	-	3.595	-
	18.09.2017	12.05	3.073	Prior to development
	18.10.2017	8.00	2.941	
	20.11.2017	8.10	2.964	
	14.02.2018	8.00	2.851	
NEL-BH038	22.02.2018	12.08	2.924	
	28.02.2018	7.55	2.946	-
	23.03.2018	10.50	3.120	-
	19.04.2018	-	3.118	-
	04.10.2017	11.13		Prior to development
	18.10.2017	7.40	6.492	
	20.11.2017	7.45	6.732	
	22.12.2017	10.50	6.138	-
	22.01.2018	11.46	6.367	-
NEL-BH039	22.02.2018	10.26	6.730	
IAFF-PU098	23.03.2018	9.25	6.994	
	18.04.2018	9.00	7.104	
	20.04.2018	-	7.121	-
	22.06.2018	11.07	7.111	-
	20.07.2018	8.56	7.094	-

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		Depth to Water	
(dd.mm.yyyy)	(hh.mm)	(m TOC)	Comments
18.09.2017	11.15	1.753	Prior to development
18.10.2017	10.16	2.107	-
20.11.2017	10.49	2.244	-
19.01.2018	12.14	2.602	-
12.02.2018	10.20	2.636	
22.02.2018	9.15	2.837	-
26.02.2018	11.30	2.913	-
23.03.2018	8.40	2.947	-
20.04.2018	-	2.971	-
	9.30	3.060	-
	9.46	3.171	-
		2.978	-
		2.879	-
18.09.2017	11.16	2.414	Prior to development
			-
			Datalogger in well, logging every 4hrs
20.07.2018	8.35	2.547	Datatogger in well, logging every 4rits
10.07.0010	44.00	4.454	
19.07.2018	11.30	4.451	-
47.40.0047	7.40	0.774	District to the second
			Prior to development
			-
			-
	1		
19.07.2018	10.12	9.990	-
	I	1	1
	18.10.2017 20.11.2017 19.01.2018 12.02.2018 22.02.2018 26.02.2018	18.10.2017 10.16 20.11.2017 10.49 19.01.2018 12.14 12.02.2018 10.20 22.02.2018 9.15 26.02.2018 11.30 23.03.2018 8.40 20.04.2018 9.30 04.05.2018 9.46 22.06.2018 11.50 20.07.2018 8.34 18.09.2017 11.16 18.10.2017 10.14 20.11.2017 10.14 20.12.018 12.10 12.02.2018 9.10 22.02.2018 11.59 23.03.2018 8.34 19.07.2018 12.10 11.00 12.02.2018 11.50 12.02.2018 11.59 13.03.2018 8.35 10.04.05.2018 9.46 22.06.2018 11.59 23.03.2018 8.35 20.04.2018 9.10 26.02.2018 11.59 23.03.2018 8.35 20.04.2018 9.44 22.06.2018 11.52 20.07.2018 11.52 20.07.2018 9.44 22.06.2018 11.52 20.07.2018 9.44 22.06.2018 11.52 20.07.2018 9.44 22.06.2018 11.52 20.07.2018 9.40 20.11.2017 13.10 21.12.2017 14.12 19.01.2018 9.00 13.02.2018 9.00 13.02.2018 9.18 27.02.2018 9.18 27.02.2018 9.18 27.02.2018 9.18 27.02.2018 9.18 27.02.2018 9.55 19.04.2018 -	18.10.2017 10.16 2.107 20.11.2017 10.49 2.244 19.01.2018 12.14 2.602 12.02.2018 10.20 2.638 22.02.2018 9.15 2.837 26.02.2018 11.30 2.913 23.03.2018 8.40 2.947 20.04.2018 - 2.971 23.04.2018 9.30 3.060 04.05.2018 9.46 3.171 22.06.2018 11.50 2.978 20.07.2018 8.34 2.879 18.09.2017 11.16 2.414 18.09.2017 10.14 2.429 20.11.2017 10.46 2.521 19.01.2018 12.10 2.606 12.02.2018 9.10 2.825 22.02.2018 11.59 3.001 23.03.2018 8.35 3.044 20.04.2018 - 3.081 40.05.2018 9.44 2.948 22.06.2018 11.52 2.965

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(dd.mm.yyyy)	(hh.mm)	Depth to Water (m TOC)	Comments
		(Limit of IP was 30 m, needs grout
		34.091	-
18.09.2017	13.45	8.929	Prior to development
18.10.2017	11.12	9.120	-
20.11.2017	12.13	9.101	-
21.12.2017	14.25	9.051	-
19.01.2018	9.39	8.960	-
22.02.2018	10.58	8.921	-
01.03.2018	10.35	8.928	-
19.04.2018	-	9.200	In line with door and first wooden post
21.06.2018	12.23	9.393	
19.07.2018	10.59	9.289	-
04.10.2017	9.00	6.977	Prior to development
18.10.2017	9.15		needs grout
20.11.2017	10.01	7.124	needs grout
22.12.2017	10.01	6.891	needs grout
19.01.2018	11.23	6.900	needs grout
13.02.2018	8.00	6.928	-
23.02.2018	12.12	7.002	-
27.02.2018	11.45	7.043	-
23.03.2018	9.55	7.141	-
19.04.2018	-	7.130	-
23.04.2018	11.16	7.350	-
04.05.2018	11.29	7.445	-
21.06.2018	14.29	8.337	-
19.07.2018	14.26	7.400	-
18 09 2017	12 15	3 705	Prior to development, no well cap
			Prior to development
	11.50	4.267	
	12.20	4.330	
	11.15	4.382	
		4.569	could do with grout top up
	-	4.631	
		İ	
18.09.2017	11.50	4.057	Prior to development, no well cap
03.10.2017	11.41		Prior to development
18.10.2017	8.33	4.291	
	9.14	4.491	-
	12.41		could not access well
	11.08	4.577	long grass - bollard placed on top of gatic - ENE of monument
	-	4.618	
		4.465	
	18.10.2017 20.11.2017 21.12.2017 19.01.2018 22.02.2018 01.03.2018 19.04.2018 21.06.2018 19.07.2018 04.10.2017 18.10.2017 20.11.2017 22.12.2017 19.01.2018 23.02.2018 23.02.2018 23.02.2018 23.03.2018 19.04.2018 23.04.2018 23.04.2018 23.05.2018 23.05.2018 23.05.2018 25.05.2018 26.05.2018 27.05.2018 28.05.2018 29.06.2018 20.06.2018 20.06.2018 20.07.2018 20.11.2017 20.11.2017 20.11.2017 20.11.2017 20.11.2017 20.12.2018 20.05.2018	21.11.2017 10.06 18.09.2017 13.45 18.10.2017 11.12 20.11.2017 12.13 21.12.2017 14.25 19.01.2018 9.39 22.02.2018 10.58 01.03.2018 10.58 01.03.2018 10.59 21.06.2018 12.23 19.07.2018 10.59 04.10.2017 9.15 20.11.2017 10.01 22.12.2017 10.01 19.01.2018 11.23 13.02.2018 11.23 13.02.2018 11.23 23.02.2018 11.45 23.03.2018 12.12 27.02.2018 11.45 23.03.2018 11.45 23.04.2018 11.29 21.06.2018 11.29 21.06.2018 11.29 21.06.2018 11.29 21.06.2018 11.29 21.06.2018 11.29 21.06.2018 14.29 19.07.2018 14.29 19.07.2018 14.29 19.07.2018 11.50 22.02.2018 11.50 22.02.2018 11.50 22.02.2018 11.50 22.02.2018 11.50 22.02.2018 11.50 22.02.2018 11.50 22.02.2018 11.50 22.02.2018 11.50 22.02.2018 11.50 23.03.2017 9.51 18.10.2017 8.37 14.02.2018 11.50 22.02.2018 11.50 22.02.2018 11.50 23.03.2018 11.50 24.02.2018 11.50 25.03.2017 11.50 26.03.2017 11.41 27.03.03.2017 11.50 28.03.2017 11.50 29.04.2017 11.50 20.11.2017 8.33 20.11.2017 9.14 22.02.2018 12.41 23.03.2018 11.08	21.11.2017 10.06 34.091 18.09.2017 13.45 8.929 18.10.2017 11.12 9.120 20.11.2017 12.13 9.101 21.12.2017 14.25 9.051 19.01.2018 9.39 8.960 22.02.2018 10.58 8.921 01.03.2018 10.35 8.928 19.04.2018 - 9.200 21.06.2018 12.23 9.393 19.07.2018 10.59 9.289 04.10.2017 9.00 6.977 18.10.2017 9.00 6.977 18.10.2017 10.01 7.124 22.12.2017 10.01 6.891 19.01.2018 11.23 6.990 23.02.2018 12.12 7.002 27.02.2018 11.45 7.043 23.03.2018 9.55 7.141 19.04.2018 - 7.130 23.04.2018 11.45 7.043 23.04.2018 11.29 7.445 21.06.2018 11.29 7.445 21.06.2018 14.29 8.37 19.07.2018 14.26 7.400 18.09.2017 12.15 3.705 03.10.2017 9.51 4.410 18.09.2017 12.15 3.705 03.10.2017 8.37 4.480 21.06.2018 11.20 7.400 18.09.2017 12.15 3.705 03.10.2017 8.37 4.480 14.02.2018 11.50 4.267 22.02.2018 11.50 4.267 22.02.2018 11.50 4.267 22.02.2018 11.50 4.267 18.09.2017 11.50 4.631 18.09.2017 11.50 4.631 18.09.2017 11.50 4.631 18.09.2017 11.50 4.631 18.09.2017 11.50 4.631 18.09.2017 11.50 4.631 18.09.2017 11.50 4.631 18.09.2017 11.50 4.631 18.09.2017 11.50 4.631 18.09.2017 11.50 4.631 18.09.2017 11.50 4.631 18.09.2017 11.50 4.631 18.09.2017 11.50 4.631 18.09.2017 11.50 4.631 18.09.2017 11.41 4.444 18.10.2017 8.33 4.291 20.11.2017 9.14 4.491 22.02.2018 12.41 23.03.2018 11.00 4.569

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Well ID	Date (dd.mm.yyyy)	Time (hh.mm)	Depth to Water (m TOC)	Comments
	18.09.2017	11.45	 	Prior to development, high turbidity
_	18.10.2017	8.28	6.585	
NEL DUOCAA	20.11.2017	9.10	7.070	
NEL-BH061A	22.02.2018	12.39	7.285	
(shallow)	23.03.2018	11.10	7.102	
(orialion)	19.04.2018	-	7.102	-
-	19.04.2016	-	1.121	
	18.09.2017	12.28	5.841	Prior to development, no well cap
	18.10.2017	8.50	5.531	-
-	20.11.2017	9.29	5.883	-
-	14.02.2018	10.50	5.836	
-	22.02.2018	12.52	6.030	
NEL-BH062	28.02.2018	13.45	6.131	-
TALL DITIOUZ	08.03.2018	12.41	6.135	-
(deep)	23.03.2018	11.15	5.988	
` ''	19.04.2018		5.932	
	23.04.2018	8.15	6.000	
	04.05.2018	10.37	6.128	
-	22.06.2018	8.58	5.418	
	18.09.2017	12.30		-
	18.10.2017	8.48	5.317	-
	20.11.2017	9.25	5.681	-
	22.02.2018	12.49	5.829	-
NEL-BH062B	23.03.2018	11.17	5.782	
,	19.04.2018	-	5.778	
(middle)	23.04.2018	8.17	5.900	
	04.05.2018	10.38	5.906	-
	22.06.2018	8.56	5.522	-
	18.09.2017	12.25	5.233	Prior to development
	18.10.2017	8.46	6.178	-
	20.11.2017	9.19	6.650	-
	22.02.2018	12.46	6.865	-
NEL-BH062A	23.03.2018	11.19	6.745	-
(shallow)	19.04.2018	-	6.734	-
(Silallow)	23.04.2018	8.19	6.860	-
	04.05.2018	10.40	6.895	-
	22.06.2018	8.54	6.410	-
	18.10.2017	8.58		needs grout
	20.11.2017	9.36		needs grout
NEL-BH063	22.02.2018	13.05	2.677	-
	23.03.2018	11.22	3.013	
	19.04.2018	-	3.082	-
	18.10.2017	9.04		needs grout
	20.11.2017	9.42		needs grout
NEL-BH064	22.02.2018	13.11	2.613	
	23.03.2018	11.25	2.775	
	19.04.2018	-	2.826	l-

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Well ID	Date	Time	Depth to Water	Comments
1101110	(dd.mm.yyyy)	(hh.mm)	(m TOC)	
_	12.04.2018	9.00		Prior to development
NEL-BH067	26.07.2018	8.20	4.489	-
	12.04.2018	11.50	3 080	Prior to development
NEL-BH068	26.07.2018	9.10	2.720	
	18.10.2017	10.30	5.301	-
	20.11.2017	11.00	5.317	
	19.01.2018 22.02.2018	12.20 9.02	5.131 5.360	
NEL-BH069	23.03.2018	8.30	5.703	
NEE Briood	20.04.2018	-	5.784	
	22.06.2018	11.46	5.630	
	20.07.2018	8.38	5.646	-
	18.10.2017	9.58	7.666	-
	20.11.2017 22.12.2017	10.32 10.32	7.712 7.835	
<u> </u>	19.01.2018	11.50	8.071	
NEL DUOZO	22.02.2018	9.45	8.335	
NEL-BH070	22.03.2018	14.25	8.515	
	20.04.2018	-	8.505	
	22.06.2018	12.13	8.357	
	20.07.2018	8.23	8.131	<u>-</u>
	18.10.2017	9.48	8.806	
	20.11.2017	10.25	8.886	
	22.12.2017	10.26	8.959	
	19.01.2018	11.44	9.193	
NEL-BH071	22.02.2018	9.40	9.364	
	22.03.2018 20.04.2018	14.05	9.562 9.506	
	22.06.2018	12.09	9.446	
	20.07.2018	8.19	9.250	
	18.10.2017	9.39	3.031	
	20.11.2017	10.18	3.152	
	22.12.2017 19.01.2018	10.20 11.37	3.016 3.034	
	22.02.2018	9.30	3.186	
NEL-BH072	22.03.2018	13.50	3.390	
	20.04.2018	-	3.492	-
	22.06.2018	12.02	3.465	
	20.07.2018	8.15	3.430	-
	22.03.2018	13.00	6.440	Build up of goo in cooling, remove can corefully
	17.04.2018	10.30	6.440	Build up of gas in casing - remove cap carefully
NEL-BH076	19.04.2018	-	6.389	
(deep)	21.06.2018	13.56	6.060	-
(иссь)	19.07.2018	13.55	6.239	-
	00.01.0010	40.00	0.070	
<u> </u>	22.01.2018 21.03.2018	12.30 13.48	6.270	Prior to development
F	22.03.2018	12.55		Build up of gas in casing - remove cap carefully
NEL-BH076A	17.04.2018	9.50	6.494	
(shallow)	19.04.2018	-	6.461	
(Sitallow)	21.06.2018	13.55	6.216	
<u> </u>	19.07.2018	13.53	6.364	-
	22.03.2018	12.45	5 500	Build up of gas in casing - remove cap carefully
	19.04.2018	12.45	5.502	
NEL-BH078	21.06.2018	13.48	4.986	
_	19.07.2018	13.36	4.973	

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Well ID	Date	Time	Depth to Water	Comments
well ID	(dd.mm.yyyy)	(hh.mm)	(m TOC)	Comments
	19.01.2018	10.45	3.735	Prior to development
	22.03.2018	12.00	4.338	
NEL-BH080	19.04.2018	-	4.214	
INEE-BI 1000	21.06.2018	13.39	3.974	
L	19.07.2018	13.45	3.934	-
	20.11.2017	11.35	4.810	
_	21.12.2017	15.00	4.733	
	19.01.2018	10.11	4.767	
NEL-BH083	22.03.2018	11.45	5.144	
	19.04.2018	-	4.974	
_	21.06.2018	13.15	4.729	
-	19.07.2018	11.49	4.802	-
NEL-BH084				
	19.07.2018	11.04	2.144	Open hole, close to Simpson's barracks off Borlase St
NEL-BH085	19.09.2018	9.06	1.999	
	14.12.2017	10.19	9.010	Prior to development
NEL BLIGGS	12.07.2018	10.00	9.870	-
NEL-BH086				
	13.12.2017	12.41	5.610	Prior to development
NEL-BH087	12.07.2018	12.00	6.151	-
NEL-BITOO7				
	13.12.2017	14.21	11.070	Prior to development
<u> </u>	12.07.2018	14.00	12.693	
NEL-BH088	12.07.2010	14.00	12.093	
	42.42.2047	40.04	00.000	Dries to development
	13.12.2017 12.07.2018	10.21 15.00	20.200	Prior to development
NEL-BH089	12.07.2018	15.00	20.180	-
<u> </u>	22.03.2018	10.43		Further development recommended
NEI BUIDO	19.04.2018	-	21.369	
NEL-BH090	21.06.2018	12.16	21.526	
-	19.07.2018	10.52	21.465	-
	23.02.2018	10.40		Recently developed - WL still recovering
	22.03.2018	10.50	17.491	
NEL-BH091	19.04.2018	-	17.565	
NEL-BHU91	21.06.2018	12.11	17.791	
	19.07.2018	10.48	17.717	e-

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Well ID	Date	Time	Depth to Water	Comments
vveii iD	(dd.mm.yyyy)	(hh.mm)	(m TOC)	Comments
	23.02.2018	10.10	9.499	-
F	22.03.2018	10.29	9.284	-
NEL-BH092	19.04.2018	-	9.219	-
NEL-BH092	21.06.2018	12.03	9.300	-
	19.07.2018	10.42	9.331	-
	22.03.2018	8.50	15.846	-
	19.04.2018	-	15.458	-
NEL-BH093	21.06.2018	10.21	15.490	-
	19.07.2018	9.09	15.360	-
	21.12.2017	14.00	11.316	-
	19.01.2018	8.50	11.296	-
	23.02.2018	8.30	11.390	-
NEL-BH095	22.03.2018	9.05	11.598	-
NEC-DI1093	19.04.2018	-	11.698	-
	21.06.2018	10.30	11.836	-
	19.07.2018	9.15	11.724	-
	23.02.2018	8.58	12.374	-
	22.03.2018	9.35	12.494	-
NEL-BH097	19.04.2018	-	12.484	-
INCL-DI 1097	21.06.2018	11.04	12.507	-
	19.07.2018	9.51	12.435	-
	19.01.2018	9.20		Prior to development
	23.02.2018	8.44	13.573	-
	22.03.2018	9.45	13.711	-
	19.04.2018	-	13.773	-
NEL-BH098	23.04.2018	13.01	13.780	-
	04.05.2018	8.30	13.763	-
	21.06.2018	11.13	13.931	-
	19.07.2018	10.01	13.850	Datalogger in well, logging every 4hrs
	22.03.2018	9.20		open hole - no casing installed. needs security screw
	19.04.2018	-		open hole - no casing installed
NEL-BH099	21.06.2018	10.54	19.980	-
	19.07.2018	9.46	20.000	-

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Well ID	Date	Time	Depth to Water	Comments
Well ID	(dd.mm.yyyy)	(hh.mm)	(m TOC)	Comments
	22.03.2018	11.25	4.325	=
	19.04.2018	-	4.322	
NEL-BH100	21.06.2018	12.28	4.263	Recovering from pumping test
	19.07.2018	-	-	Well destroyed
	22.03.2018	11.20	2.752	-
NEL-BH106	19.04.2018	-	2.772	
	21.06.2018	12.34	3.085	
	19.07.2018	11.13	2.279	-
	22.03.2018	11.15	2.907	-
	19.04.2018	-	3.039	-
NEL-BH107	21.06.2018	12.37	4.515	-
	19.07.2018	11.15	2.765	-
	22.03.2018	11.00	7.432	-
	19.04.2018	-	7.331	-
NEL-BH108	21.06.2018	10.16	7.555	-
	19.07.2018	9.04	7.513	-
	22.01.2018	9.20	10.361	Prior to development
	23.02.2018	9.29	13.300	Recently developed - WL still recovering
	23.03.2018	11.48	10.784	-
NEL-BH121	19.04.2018	-	10.926	-
	21.06.2018	10.40	11.117	-
	19.07.2018	9.18	10.985	-
	23.02.2018	9.39	7.324	Prior to development
NEL BUILDO	23.03.2018	11.52	-	No access - well within locked LXRA compound
NEL-BH122	19.07.2018	9.23	9.220	Developed with bailer, 10L total over 2 weeks taken
	23.03.2018	9.48	13.662	-
	20.04.2018	-	13.699	-
NEL-BH123	22.06.2018	10.00	13.940	
<u> </u>	20.07.2018	10.28	14.111	
	27.04.2018	9.50	16.700	Prior to development
NEL BUILDA	22.06.2018	10.06	16.696	
NEL-BH124	20.07.2018	10.31	16.681	
F		1		

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Well ID	Date	Time	Depth to Water	Comments
Well ID	(dd.mm.yyyy)	(hh.mm)	(m TOC)	Somments
	31.01.2018	10.48	5.820 F	Prior to development
	22.02.2018	10.32	6.106 -	
	23.03.2018	9.30	6.250	Ants nest in gatic. Best to visit early in morning when cold
NEL-BH125	20.04.2018	-	6.353 -	
	22.06.2018	11.03	6.288 -	
	20.07.2018	9.01	6.242 V	Nell casing repaired on 11.07.2018, PVC cut down ~10cm
	22.02.2018	10.20	4.622 -	
	23.03.2018	9.20	4.995 -	
NEL-BH126	20.04.2018	-	5.096 -	
NEL-BITI20	22.06.2018	11.13	4.923 -	•
	20.07.2018	8.54	4.798 -	
	22.02.2018	10.14	5.913 -	
	23.03.2018	9.10	6.070 -	
NEL-BH127	20.04.2018	-	6.114 n	needs security screw
NEL-BH 127	22.06.2018	10.37	6.040 -	
	20.07.2018	8.50	6.035 -	
	22.02.2018	10.41	6.658 F	Prior to development
	23.03.2018	9.40	6.380 -	
	20.04.2018	-	6.428 -	
NEI BUILO	23.04.2018	10.17	6.430 -	
NEL-BH128	04.05.2018	10.12	6.427 -	
	22.06.2018	10.51	6.361 -	
	20.07.2018	9.09	6.387 -	
	22.02.2018	10.44	6.268 -	
	23.03.2018	9.35	6.785 to	op of PVC needs to be re-cut
	20.04.2018	-	6.883 -	
NEL-BH128A	04.05.2018	10.14	6.841 -	
	22.06.2018	10.53	6.824 -	
	20.07.2018	9.07	6.842 -	
	24.01.2018	15.45	3.652 F	Prior to development
F	22.02.2018	8.50	4.831 -	·
	23.03.2018	8.25	5.132 to	op of PVC needs to be re-cut
NEL-BH130	20.04.2018	-		needs security screw
· · · · · · · · · · · · · · · · · · ·	22.06.2018	11.41	4.978 -	
F	20.07.2018	8.41	4.936 -	

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	Date	Time	Depth to Water	
Well ID	(dd.mm.yyyy)	(hh.mm)	(m TOC)	Comments
NEL-BH131				Not sampled by the date of this report
NEL-BH 131				
NEL-BH132				Not sampled by the date of this report
NEL-BH133				Not sampled by the date of this report
	23.03.2018	10.10	7 257	Eastern gatic
1	19.04.2018	10.10	7.250	
NEL-BH137	21.06.2018	14.35	7.432	-
NEL-BH 13/	20.07.2018	10.40	7.342	-
	20.07.2016	10.40	1.542	<u>-</u>
	23.03.2018	-	8.219	Western gatic
-	19.04.2018	-	8.246	
NEL-BH140	21.06.2018	14.35	7.432	
	19.07.2018	14.49	8.276	-
NEL-BH150				
	12.04.2018	13.20		Prior to development
NEL-BH151	26.07.2018	10.20	3.979	-
NEI DIMEO	20.07.2018	10.43	6.584	-
NEL-BH158				
	19.07.2018	11.25	7 200	Open hole
NEL-BH159	19.07.2018	11.25	7.200	Open noie
NEL-BIT139				
	26.04.2018	11.03	4 150	Prior to development
1	04.05.2018	12.00	5.045	
NEL-BH181	22.06.2018	10.16	4.729	
	20.07.2018	10.04	4.678	
			1.010	
	26.04.2018	12.13	5.850	Prior to development
	04.05.2018	12.05	5.851	
NEL-BH182	22.06.2018	10.22	5.906	
	20.07.2018	10.07	5.747	-

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Well ID	Date	Time	Depth to Water	Comments
well iD	(dd.mm.yyyy)	(hh.mm)	(m TOC)	Comments
NEL-ENV-BH004				Not Installed
	23.03.2018	-	7.385	Prior to development, western gatic
	20.04.2018	-		Prior to development, western gatic
	08.05.2018	-	7.420	-
NEL ENVENIONS	21.06.2018	14.34	7.520	-
NEL-ENV-BH006	19.07.2018	-	7.362	-
	16.08.2018	14.22	7.432	-
	19.09.2018	12.29	7.443	-
	23.03.2018	-	8.285	Prior to development, eastern gatic
	20.04.2018	-		Prior to development
<u> </u>	08.05.2018	-	8.340	
	21.06.2018	14.54	8.361	-
NEL-ENV-BH008	19.07.2018	14.52	8.347	-
<u> </u>	16.08.2018	14.55	8.388	-
<u> </u>	19.09.2018	12.05	8.409	
<u> </u>	10.00.2010	12.00	0.100	
	27.06.2018	13.00	3.030	-
NEL-ENV-BH009	19.07.2018	11.40	3.625	
	10.07.2010	11110	0.020	
	13.07.2018	7.30	6.515	-
<u> </u>	19.07.2018	14.29	6.488	
NEL-ENV-BH014	16.08.2018	14.03	6.500	
	19.09.2018	12.22	6.485	
<u> </u>	10.00.2010	12.22	0.100	
	20.09.2018	8.37	18 623	Hydrocarbon odour present
NEL-ENV-BH022	20.00.2010	0.01	10.020	Tryanocan basan procent
	27.04.2018	11.00	8.450	Prior to development
	08.05.2018	-	6.910	
<u> </u>	19.07.2018	14.00	7.010	1
NEL-ENV-BH024	19.08.2018	11.01	7.114	
<u> </u>	19.09.2018	8.44	7.175	
	10.00.2010	0.44	7.170	
	27.04.2018	7.45	11.300	Prior to development
NEL-ENV-BH025	08.05.2018	-	6.750	
1122 2111 311020	00.00.2010		0.700	
	27.06.2018	9.45	3.735	-
<u> </u>	19.07.2018	14.34		New environmental well adjacent to NEL-BH005
NEL-ENV-BH032	19.09.2018	12.33	3.780	
 	13.03.2010	12.00	3.760	

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Appendix J Table 2 Summary of Stabilized Water Quality Parameters

			Stabilised	Water C	uality Paran	neters			
Well ID	Date	Temp.	EC (µS/cm)	TDS	Redox (mV-ORP)	рН	DO (ppm)	Colour, turbidity, odour	Area
NEL-BH004	15/02/2018	18.00	8,180	5,317	-138.80	7.32	0.00	clear, low, none	Bulleen
NEL-BH004 A	15/02/2018	17.40	2,260	1,469	-82.20	7.29	0.00	pale yellow, low, none	Bulleen
NEL DUOM	13/02/2018	18.50	12,657	8,227	-95.60	7.87	1.51	clear, low, none	Bulleen
NEL-BH031	8/03/2018	17.90	13,045	8,479	-66.10	6.59	0.40	pale grey, low, none	Bulleen
NEL-BH037	16/04/2018	18.20	11,577	7,525	-94.10	6.35	0.55	clear, low, H2S	Bulleen
NEL-BH038	14/02/2018	19.90	11,765	7,647	-52.10	7.16	1.17	clear, low, none	Bulleen
NEL-BH039	18/04/2018	17.50	2,019	1,312	-130.10	6.28	3.45	clear, low, H2S	Bulleen
NEL-BH040	12/02/2018	18.00	10,623	6,905	-34.10	6.84	1.26	clear, low, none	Bulleen
NEL-BH040 A	12/02/2018	17.50	9,572	6,222	-37.40	6.54	2.00	clear to pale grey, low, slight H2S	Bulleen
NEL-BH044	13/02/2018	18.40	5,178	3,366	-52.80	7.56	1.99	clear, low, none	Bulleen
NEL-BH059	13/02/2018	16.80	8,776	5,704	-91.70	7.53	1.21	clear, low, none	Bulleen
NEL-BH060	14/02/2018	17.90	8,920	5,798	-61.00	7.39	1.30	clear, low, none	Bulleen
NEL BUIGGO	14/02/2018	16.20	8,169	5,310	68.80	7.50	0.30	clear, low, none	Bulleen
NEL-BH062	8/03/2018	16.30	8,700	5,655	-76.60	7.06	1.92	clear, low, none	Bulleen
NEL BUIGGO B	14/02/2018	15.60	4,368	2,839	-73.90	7.13	0.66	pale yellow to clear, low, none	Bulleen
NEL-BH062 B	8/03/2018	16.20	4,622	3,004	-98.50	7.04	8.36	clear, low, none	Bulleen
NEL-BH062 A	16/02/2018	15.30	1,792	1,165	-116.60	6.31	0.66	clear, low, none	Bulleen
NEL-BH064	14/02/2018	19.30	10,740	6,981	-45.50	7.35	0.82	clear, low, none	Bulleen
NEL-BH070	12/02/2018	19.20	9,138	5,940	-74.50	7.01	0.66	clear, low, none	Bulleen
NEL-BH071	17/04/2018	17.60	7,700	5,005	-86.10	6.08	1.55	pale brown to clear, low, slight H2S	Bulleen
NEL-BH072	12/02/2018	17.70	7,898	5,134	-44.90	6.52	1.22	pale grey, low, none	Bulleen
NEL-BH076	17/04/2018	16.30	4,411	2,867	20.50	5.81	1.56	pale grey, low, slight H2S	Bulleen
NEL-BH076 A	17/04/2018	16.10	3,450	2,243	-27.10	5.76	2.79	pale grey to clear, low, H2S	Tunnel
NEL-BH078	17/04/2018	16.30	6,589	4,283	-123.30	6.65	1.87	pale grey to clear, low, H2S	Tunnel
NEL-BH083	16/04/2018	17.30	12,242	7,957	-123.00	5.70	2.66	pale grey to clear, low, H2S	Tunnel
NEL-BH086	12/07/2018	15.2	13,039	10,000	115.9	6.53	0.00	pale grey to brown, low, none	Yallambie
NEL-BH087	12/07/2018	15.6	9,774	6,300	-12.1	6.59	0.03	clear, low, none	Yallambie
NEL-BH088	12/07/2018	15.7	8,947	6,100	47.7	6.70	0.40	clear, low, none	Yallambie
NEL-BH089	12/07/2018	16.9	10,322	6,800	-103.8	6.54	0.24	clear, low, none	Yallambie
NEL-BH091	16/02/2018	18.80	5,499	3,574	66.70	7.06	5.48	pale brown, low to medium, none	Watsonia
NEL-BH093	16/04/2018	18.10	6,594	4,286	27.70	6.71	3.66	pale grey, low, none	Watsonia
NEL-BH095	13/02/2018	18.80	4,683	3,044	-52.60	7.81	1.31	pale grey, low, none	Watsonia
NEL-BH097	15/02/2018	17.20	10,205	6,633	19.50	6.94	1.49	pale grey, low, none	Watsonia
NEL-BH098	15/02/2018	16.90	6,512	4,233	155.10	6.21	4.29	pale grey to clear, low, none	Watsonia
NEL-BH106	16/04/2018	16.90	13,722	8,919	-36.00	5.74	0.20	clear, low, H2S	Watsonia
NEL-BH107	16/04/2018	17.30	11,397	7,408	-30.20	6.55	0.29	clear, low, none	Watsonia
NEL-BH125	16/02/2018	16.90	1,311	852	-121.10	6.39	0.58	clear, low, H2S	Bulleen
NEL-BH128	8/03/2018	17.60	1,264	822	-66.60	6.40	4.88	clear, low, none	Bulleen
NEL-BH140	18/04/2018	17.70	6,629	4,309	33.10	6.73	4.22	pale brown, low, none	Bulleen
NEL-ENV-BH006	27/06/2018	18.8	6.798	6,350	145.1	6.96	1.67	orange, high, none	Bulleen
NEL-ENV-BH008	8/05/2018	18.30	9,443	7,280	101.10	6.77	2.60	pale grey to brown, very low, none	Bulleen
NEL-ENV-BH009	27/06/2018	16.8	1,177	962	166.3	6.49	8.28	clear, low, none	Bulleen
NEL-ENV-BH014	13/07/2018	17.1	2,080	1,300	103.8	7.28	2.26	clear, low, none	Bulleen
NEL-ENV-BH024	8/05/2018	20.30	7,790	5,710	133.60	6.90	2.45	clear, very low, slight odour	Watsonia
NEL-ENV-BH025	9/05/2018	18.00	9,483	7,280	147.10	6.57	9.15	pale grey to brown, low, slight odour	Watsonia
NEL-ENV-BH032	27/06/2018	18.9	9,262	7,220	202.1	6.97	4.23	clear, low, none	Bulleen

		Segn	ents (mg/L]	TDS)	and the same
Beneficial Uses	A1 (0-500)	A2 (501-1,000)	B (1,001- 3,500)	(3,501- 13,000)	D (greater than 13,000)
1. Maintenance of ecosystems	V	*	*	V	1
2. Potable water supply:				7-	2-11
destrable	~				
acceptable		4			
3. Potable mineral water supply	· /	~	¥		
4. Agriculture, parks and gardens	V	*	Y		
5. Stock watering	-	4	1	4	
6. Industrial water use	V	1	4	4	V
7. Primary contact recreation (eg. bathing, swimming)	*	*	*	Y	
8. Buildings and structures	¥5.	4	4	.0	v

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Summary of Soil Analytical Results

Location Code	NEL-BH079	NEL-BH079	NEL-BH086	NEL-BH087	NEL-BH087	NEL-BH088	NEL-BH088	NEL-BH089	NEL-BH089	NEL-BH100	NEL-BH101	NEL-BH101	NEL-BH106	NEL-BH106	NEL-BH107	NEL-BH107
Depth	0.5 - 0.6	1 - 1.1	0.3 - 0.4	0.2 - 0.3	0.7 - 0.8	0.2 - 0.3	0.6 - 0.7	0.2 - 0.3	0.6 - 0.7	2 - 2.1	0.5 - 0.6	1 - 1.1	2 - 2.1	3 - 3.1	0.7 - 0.8	2 - 2.1
Date	10/07/2018	10/07/2018	2/11/2017	21/11/2017	21/11/2017	21/11/2017	21/11/2017	21/11/2017	21/11/2017	23/01/2018	14/06/2018	14/06/2018	12/01/2018	12/01/2018	10/01/2018	11/01/2018
Fleid ID	NEL-BH079_0.5m	NEL-BH079_1.0m	NEL-BH086_0.3m	NEL-BH087_0.2m	NEL-BH087_0.7m	NEL-BH088_0.2m	NEL-BH088_0.6m	NEL-BH089_0.2m	NEL-BH089_0.6m	NEL_BH100_2.0m	NEL-BH101_0.5	NEL-BH101_1.0	NEL-BH106_2.0m	NEL-BH106_3.0m	NEL-BH107_0.7m	NEL-BH107_2.0m
Sample Type	Normal Normal	Normal	Normal	Normal	Normal											
Lab Report Number	EM1811072	EM1811072	EM1716457	EM1715998	EM1715998	EM1715998	EM1715998	EM1715998	EM1715998	EM1801849	EM1809614	EM1809614	EM1801198	EM1801198	EM1801198	EM1801198

						Lab Report Number	EM1811072	EM1811072	EM1716457	EM1715998	EM1715998	EM1715998	EM1715998	EM1715998	EM1715998	EM1801849	EM1809614	EM1809614	EM1801198	EM1801198	EM1801198	EM1801198
						EPA Victoria IWRG 621																
	Unit				EPA Victoria IWRG 621 Clean Fili	Trigger for Leachate																
Inomenica	Unit	EQL	621 Category B	621 Category C	021 Clean Fill	Testing			1				1									
Inorganics Cyanide (Total)	mg/kg	1	10000	2500	50	160	<1		2					-							1	- 21
Major Ions		+ -							 	<u> </u>	-		+	-							-	- "
Fluoride	mg/kg	40	40000	10000	450	3000	560	540	530	130	330	160	620	480	520	340	610	200	280	200	410	220
Metals																						
Arsenic	mg/kg	5	2000	500	20	14	5	<5	<5	<5	8	<5	<5	7	9	6	<5	5	5	<5	6	<5
Cadmium	mg/kg	1	400	100	3	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium (hexavalent)	mg/kg	0.5	2000	500	1	100	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (III+VI)	mg/kg	2	20000	5000	100	4000	14	17	9		- 6		- 12	- 17	30	16	14		- 14	10	- 18	
Copper	mg/kg mg/kg	5	6000	1500	300	20	14	17	10	8	15	- 6	12	24	23	16	14	13	13	10	18	11
Mercury	mg/kg	0.1	300	75	300	20	<0.1	<0.1	<0.1	<0.1	<0.1	en 1	<0.1	<0.1	<0.1	<0.1	12 <0.1	13 s0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	2	4000	1000	40	100	<2	<2	<2	<0.1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Nickel	mg/kg	2	12000	3000	60	40	33	57	16	3	8	2	16	9	10	26	20	8	16	21	19	10
Selenium	mg/kg	5	200	50	10	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Silver	mg/kg	2	720	180	10	200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tin	mg/kg	5		500	50		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Zinc	mg/kg	5	140000	35000	200	6000	22	64	12	6	6	<5	16	21	10	15	23	9	14	8	20	7
BTEXN																						
Benzene	mg/kg	0.2	16	4	1	2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene Ethylbenzene	mg/kg	0.5					<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5
Ethylbenzene Xvlene (o)	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene (m & p)	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene Total	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH - NEPM 2013									1													
F1 (C6-C10 minus BTEXN)	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C6-C10 Fraction	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (>C10-C16 minus Naphthalene)	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C16 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
F3 (>C16-C34 Fraction) F4 (>C34-C40 Fraction)	mg/kg	100					<100 <100	<100 <100	<100 <100	<100 <100	<100 <100	<100 <100	<100 <100	<100 <100	<100 <100	<100 <100	<100	<100 <100	<100 <100	<100	<100 <100	<100 <100
>C10-C40 (Sum of Total)	mg/kg	100					<100 <50	<100	<100 <50	<100 <50	<100 <50	<100 <50	<100	<100 <50	<100	<100 <50	<100	<100	<100	<100	<100	<100 <50
TRH - NEPM 1999	mg/kg	30					V-00		~50	~00	~50	-00	~50	~500	~30	-00	-50		~50	~50	~50	-50
C6-C9 Fraction	mg/kg	10	2600	650	100		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C10-C14 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15-C28 Fraction	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29-C36 Fraction	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C10-C36 (Sum of Total)	mg/kg	50	40000	10000	1000		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
PAHs							<0.5											<0.5				
Sum of polycyclic aromatic hydrocarbons	mg/kg	0.5						<0.5	-0.5	-0.5	<0.5	-0.5	<0.5	<0.5	<0.5	-0.5	<0.5	<0.5	<0.5	-0.5	<0.5	<0.5
Pyrene Acenaphthene	mg/kg mg/kg	0.5					<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	0.5					<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	×0.5	×0.5	<0.5	<0.5	<0.5	×0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5
Anthracene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a) pyrene	mg/kg	0.5	20	5	1	0.02	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5
Benzo(b+j+k)fluoranthene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5					< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5
Chrysene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene Fluoranthene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5
Fluorene	mg/kg mg/kg	0.5					<0.5 <0.5	<0.5 <0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	0.5					<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5
PAHs (Sum of total) - Lab calc	mg/kg	0.5	400	100	20		-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab	camg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(half LOR) - Lab (Cal mg/kg	0.5					0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab C	Cald mg/kg	0.5					1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Phenois Phenois(halogenated) - Lab Calc	matea	0.03				40	<0.03	< 0.03	<1	<1	<1	<1	<1	<1	<1	<1	< 0.03	<0.03	<1	<1	<1	<1
2/4-Methylphenol (m/p-cresol)	mg/kg mg/kg	0.03				40	*U.U3	*U.U3	<1 e1	51 21	51	- S1 - e1	51 21		51	- 51	<u.u3< td=""><td>*0.03</td><td></td><td>51</td><td>51</td><td>- 51</td></u.u3<>	*0.03		51	51	- 51
Phenois (non-halogenated) - Lab Calc	mg/kg mg/kg	1				280	<1	<1 <1	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		<1	- ST	-			+ :
2,3,5,6-Tetrachlorophenol	mg/kg	0.03				200	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
2,4,5-trichlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4,6-trichlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4-dichlorophenol	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03
2,4-dimethylphenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-dinitrophenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2,6-dichlorophenol	mg/kg	0.03					<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	mg/kg	0.05					< 0.05	< 0.05	<0.05	< 0.05	< 0.05	<0.05	< 0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-chlorophenol	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03
2-methylphenol	mg/kg	- 1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-nitrophenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4,6-Dinitro-o-cyclohexyl phenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
							< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
4-chloro-3-methylphenol	mg/kg	0.03							<5	<5	<5	<5	<5		<5	<.5	<5	<5	<5			<5
4-nitrophenol	mg/kg	5					<5	<5						-0-		-0		-0.5	-0.7	-0.5	-0.0	
4-nitrophenol Pentachlorophenol	mg/kg mg/kg	5 0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
4-nitrophenol Pentachlorophenol Phenol	mg/kg mg/kg mg/kg	5 0.2 1												<0.2		<1		<0.2	<1	<1	<1	<0.2
4-nitrophenol Pentachlorophenol	mg/kg mg/kg	5 0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		<0.2		<0.2					<0.2

Summary of Soil Analytical Results

Location Code	NEL-BH108	NEL-BH108	NEL-BH108	NEL-BH109	NEL-BH109	NEL-BH110	NEL-BH110	NEL-BH110	NEL-BH110	NEL-BH118	NEL-BH118	NEL-BH118	NEL-BH119	NEL-BH119	NEL-BH119	NEL-BH120
Depth	0.2 - 0.3	0.7 - 0.8	1.2 - 1.3	0.2 - 0.3	1.1 - 1.2	0.1 - 0.2	0.5 - 0.6	1 - 1.1	1.5 - 1.6	0.5 - 0.5	0.8 - 0.8	3.5 - 3.5	1 - 1	1.8 - 1.8	2.5 - 2.5	0.2 - 0.3
Date	19/02/2018	19/02/2018	19/02/2018	5/03/2018	5/03/2018	13/03/2018	13/03/2018	13/03/2018	13/03/2018	12/09/2018	12/09/2018	12/09/2018	7/09/2018	7/09/2018	7/09/2018	5/07/2018
Field ID	NEL-BH108_0.2m	NEL-BH108_0.7m	NEL-BH108_1.2m	NEL-BH109_0.2m	NEL-BH109_1.1m	NEL-BH110_0.1m	NEL-BH110_0.5m	NEL-BH110_1.0m	NEL-BH110_1.5m	NEL-BH118_0.5	NEL-BH118_0.8	NEL-BH118_3.5	NEL-BH119_1.0	NEL-BH119_1.8	NEL-BH119_2.5	NEL-BH120_0.2m
Sample Type	Normal Normal	Normal	Normal	Normal	Normal	Normal										
Lab Report Number	EM1803248	EM1803248	EM1803248	EM1804004	EM1804004	EM1804502	EM1804502	EM1804502	EM1804502	EM1814744	EM1814744	EM1814744	EM1814388	EM1814388	EM1814388	EM1810873

	_	_				Lab Report Number	EM1003240	EM1803248	EM1803248	EM1804004	EM1804004	EM1804502	EM1804502	EM1804502	EM1804502	EM1814744	EM1814744	EM1814744	EM1814388	EM1814388	EM1814388	EM1810873
						EPA Victoria IWRG 621																
			EPA Victoria IWRG	EPA Victoria IWRG	EPA Victoria IWRG	Trigger for Leachate																
	Unit		621 Category B	621 Category C	621 Clean Fill	Teeting																
inorganics																						
Cyanide (Total)	mg/kg	1	10000	2500	50	160	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Major Ions																						
Fluoride	mg/kg	40	40000	10000	450	3000	540	700	640	370	440	270	490	600	460	200	280	410	170	120	320	190
Metals Arsenic	mg/kg	5	2000	500	20	14	6	8	5	8		6	8	8	7	15	-		6	20		7
Cadmium	mg/kg	1	400	100	3	4	<1			<1			-61	- 61		15		<1	11	13	< 0	
Chromium (hexavalent)	mg/kg	0.5	2000	500	1	100	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium (III+VI)	mg/kg	2					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	5	20000	5000	100	4000	17	23	22	18	12	9	33	23	23	48	7	11	45	82	11	25
Lead	mg/kg	5	6000	1500	300	20	14	22	14	30	14	17	22	13	9	291	16	13	74	66	14	42
Mercury	mg/kg	0.1	300	75	1	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	1.0	0.4	<0.1	<0.1
Molybdenum Nickel	mg/kg	2	4000 12000	1000 3000	40 60	100 40	<2 31	<2 57	<2 53	<2 40	<2 23	<2	<2 34	<2 32	<2 35	<2 14	<2 8	<2 20	<2 62	112	<2 14	<2 19
Selenium	mg/kg mg/kg	5	200	50	10	20	- 51	- 65	65	40	23	- 65	34	3Z 45	35 r/5	14	- 6	20 e5	62	112	14	19
Silver	mg/kg	2	720	180	10	200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tin	mg/kg	5		500	50		<5	<5	<5	<5	<5	<5	<5	<5	<5	6	<5	<5	121	31	<5	<5
Zinc	mg/kg	5	140000	35000	200	6000	26	52	68	63	30	41	52	59	76	168	8	25	126	148	18	55
BTEXN																						
Benzene	mg/kg	0.2	16	4	1	2	< 0.2	<0.2	< 0.2	< 0.2	<0.2	< 0.2	< 0.2	< 0.2	< 0.2	<0.2	< 0.2	< 0.2	<0.2	< 0.2	< 0.2	< 0.2
Toluene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene Xylene (o)	mg/kg	0.5					<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5	<0.5 <0.5
Xylene (o) Xylene (m & p)	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene Total	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH - NEPM 2013	1	1								1								1				
F1 (C6-C10 minus BTEXN)	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C6-C10 Fraction	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (>C10-C16 minus Naphthalene)	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C16 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
F3 (>C16-C34 Fraction) F4 (>C34-C40 Fraction)	mg/kg	100					<100 <100	<100	<100	<100	<100 <100	<100	<100	<100	<100 <100	830 380	<100	<100 <100	250 110	180 110	<100 <100	<100 <100
>C10-C40 (Sum of Total)	mg/kg mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	1.210	<50	<50	360	290	<50	<50
TRH - NEPM 1999	Illiging	- 00					-50	-50	-50	-50	-50	-50	-50	-50	-00	1,210	-50	-50	500	250	-50	-00
C6-C9 Fraction	mg/kg	10	2600	650	100		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C10-C14 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15-C28 Fraction	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	390	<100	<100	120	<100	<100	<100
C29-C36 Fraction	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	640	<100	<100	180	170	<100	<100
C10-C36 (Sum of Total)	mg/kg	50	40000	10000	1000		<50	<50	<50	<50	<50	<50	<50	<50	<50	1,030	<50	<50	300	170	<50	<50
Sum of polycyclic aromatic hydrocarbons	mg/kg	0.5						_			_	_		_	75.7	r0.5	en 5	e0.5	e0.5	e0.5	en 5	e0.5
Pyrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	1.2	< 0.5	<0.5	<0.5	12.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	mg/kg	0.5					<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
Acenaphthylene	mg/kg	0.5					< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
Anthracene	mg/kg	0.5					<0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	1.2	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5		5			<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	4.9	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a) pyrene Benzo(b+j+k)fluoranthene	mg/kg mg/kg	0.5	20	5	1	0.02	<0.5	<0.5 <0.5	<0.5	< 0.5	1.0	<0.5	<0.5 <0.5	<0.5	10.0 14.0	<0.5 <0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5
Benzo(g,h,i)perylene	mg/kg	0.5					<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5					<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	1.2	< 0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5
Fluoranthene	mg/kg	0.5					< 0.5	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	9.2	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5
Fluorene	mg/kg	0.5					<0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5					<0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	5.8	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5
Phenanthrene PAHs (Sum of total) - Lab calc	mg/kg mg/kg	0.5	400	100	20		<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	3.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab		0.5	400	100	2.0		<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	13.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(half LOR) - Lab		0.5					0.6	0.6	0.6	0.6	1.0	0.6	0.6	0.6	13.8	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab (Cald mg/kg	0.5					1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.2	13.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Phenois																						
Phenois(halogenated) - Lab Calc	mg/kg	0.03				40	<1	<1	<1	-	-	-	-	-	-	< 0.14	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03
3/4-Methylphenol (m/p-cresol)	mg/kg	1					-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenois (non-halogenated) - Lab Calc 2.3.5.6-Tetrachlorophenol	mg/kg	0.03				280	<0.03	<0.03	<0.03	-0.05	<0.03	<0.03	<0.03	<0.03	<0.03	<1 <0.14	<0.03	<1	<0.03	<0.03	<0.03	<0.03
	mg/kg						<0.03	<0.03	<0.03	<0.03								<0.03	<0.03			
2,4,5-trichlorophenol 2,4,6-trichlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05 <0.05	<0.05 <0.05	<0.05 <0.05	<0.05 <0.05	<0.05 <0.05	<0.05 <0.05	<0.14 <0.14	<0.05 <0.05	<0.05	<0.05	<0.05 <0.05	<0.05 <0.05	<0.05 <0.05
2,4-dichlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4-dichlorophenol 2,4-dimethylphenol	mg/kg mg/kg	0.03					<0.03	<u.u3< td=""><td><u.u3< td=""><td>*U.U3</td><td>5U.U3</td><td><u.u3< td=""><td>~U.U3</td><td>~U.U3</td><td>>0.U3 e1</td><td>>0.14</td><td>~v.ua e1</td><td>~U.U3</td><td>*U.U3</td><td><u.u3< td=""><td>*U.U3</td><td><0.03</td></u.u3<></td></u.u3<></td></u.u3<></td></u.u3<>	<u.u3< td=""><td>*U.U3</td><td>5U.U3</td><td><u.u3< td=""><td>~U.U3</td><td>~U.U3</td><td>>0.U3 e1</td><td>>0.14</td><td>~v.ua e1</td><td>~U.U3</td><td>*U.U3</td><td><u.u3< td=""><td>*U.U3</td><td><0.03</td></u.u3<></td></u.u3<></td></u.u3<>	*U.U3	5U.U3	<u.u3< td=""><td>~U.U3</td><td>~U.U3</td><td>>0.U3 e1</td><td>>0.14</td><td>~v.ua e1</td><td>~U.U3</td><td>*U.U3</td><td><u.u3< td=""><td>*U.U3</td><td><0.03</td></u.u3<></td></u.u3<>	~U.U3	~U.U3	>0.U3 e1	>0.14	~v.ua e1	~U.U3	*U.U3	<u.u3< td=""><td>*U.U3</td><td><0.03</td></u.u3<>	*U.U3	<0.03
2,4-dinitrophenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<12	<5	<5	<5	<5	<5	<5
2,6-dichlorophenol	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.14	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.29	<0.05	< 0.05	<0.05	<0.05	<0.05	<0.05
2-chlorophenol	mg/kg	0.03					< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	< 0.14	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03
2-methylphenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-nitrophenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4,6-Dinitro-o-cyclohexyl phenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<6	<5	<5	<5	<5	<5	<5
4-chloro-3-methylphenol	mg/kg	0.03					< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.14	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03
4-nitrophenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<6	<5	<5	<5	<5	<5	<5
Pentachlorophenol Phenol	mg/kg mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenois (Total Halogenated)	mg/kg mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	~1	*1	*1				*1
Phenois (Total Non Halogenated)	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1			-	1		+	



Summary of Soil Analytical Results

Location Code	NEL-BH120	NEL-BH123	NEL-BH124	NEL-BH124	NEL-BH124	NEL-BH124	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125
Depth	1 - 1.1	0.1 - 0.2	0.1 - 0.2	0.5 - 0.6	1.1 - 1.2	1.5 - 1.6	0.4 - 0.5	0.4 - 0.5	0.75 - 0.85	0.75 - 0.85	1 - 1.1	1 - 1.1	1.5 - 1.6	1.5 - 1.6	3 - 3.1	3 - 3.1	4.5 - 4.6
Date	5/07/2018	22/02/2018	13/03/2018	13/03/2018	13/03/2018	13/03/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018	23/01/2018	23/01/2018	23/01/2018
Field ID	NEL-BH120_1.0m	NEL-BH123_0.1m	NEL-BH124_0.1m	NEL-BH124_0.5m	NEL-BH124_1.1m	NEL-BH124_1.5m	NEL-BH125_0.4m	NEL-BH125_0.4	NEL-BH125_0.75m	NEL-BH125_0.75	NEL-BH125_1.0m	NEL-BH125_1.0	NEL-BH125_1.5m	NEL-BH125_1.5	NEL_BH125_3.0m	NEL-BH125_3.0	NEL_BH125_4.5m
Sample Type	Normal Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal								
Lab Report Number	EM1810873	EM1803587	EM1804502	EM1804502	EM1804502	EM1804502	EM1801471	EM1803435	EM1801471	EM1803435	EM1801471	EM1803435	EM1801471	EM1803435	EM1801849	EM1803435	EM1801849

		_				Lab Report Number	EM18108/3	EM1803587	EM1804502	EM1804502	EM1804502	EM1804502	EM1801471	EM1803435	EM1801471	EM1803435	EM1801471	EM1803435	EM1801471	EM1803435	EM1801849	EM1803435	EM1801849
	Unit	EQL		EPA Victoria IWRG 621 Category C	EPA Victoria IWRG 621 Clean Fill	EPA Victoria IWRG 621 Trigger for Leachate Testing																	
Inorganics Cyanide (Total)																							
Cyanide (Total)	mg/kg	1	10000	2500	50	160	<1	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	-	<1	-	<1
Major Iona																							
Fluoride	mg/kg	40	40000	10000	450	3000	630	180	480	180	300	250	240	-	230	-	140	-	80	-	230	-	270
Metals Arsenic	er e Bor	5	2000	500	20	14	e5		<5		e5	<5						5	<5		<5		7
Cadmium	mg/kg mg/kg	1	400	100	3	4	<1	<1	<1	<5	<5	<1	<5	<5	< 5	<5	21	<1	<5	<5	<1	<5	<1
Chromium (hexavalent)		0.5		500	1	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	×0.6		×0.5	<1	<0.5	<1	20.5		<0.5
Chromium (III+VI)	mg/kg mg/kg	2	2000	300		100				40.0	-0.0	-0.0		25	-0.0	28		119	-0.0	14		32	V0.0
Copper	mg/kg	5	20000	5000	100	4000	24	31	30	7	<5	<5	14	11	22,200	17	92	29	21	20	11	11	8
Lead	mg/kg	5	6000	1500	300	20	11	<5	<5	6	5	5	27	25	33	13	242	48	5.390	1.730	455	498	15
Mercury	mg/kg	0.1	300	75	1	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	2	4000	1000	40	100	<2	<2	<2	<2	<2	<2	<2	<2	<2	4	2	<2	<2	<2	<2	<2	<2
Nickel	mg/kg	2	12000	3000	60	40	44	81	76	11	8	8	12	14	17	15	39	19	9	7	16	14	19
Selenium	mg/kg	5	200	50	10	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Silver	mg/kg	2	720	180	10	200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tin	mg/kg	5		500	50		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	410	51	199	15	7	5	<5
Zinc	mg/kg	5	140000	35000	200	6000	73	40	41	16	16	18	42	38	10,700	81	634	481	426	301	65	59	41
BTEXN			16			2																	
Benzene Toluene	mg/kg	0.2	10	4	1	2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	-	<0.2	-	<0.2	-	<0.2	-	<0.2
Ethylbenzene	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5		<0.5	+ :	<0.5	+ -	<0.5	_	<0.5
Xylene (o)	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	+ :	<0.5		<0.5	+ :	<0.5	+ -	<0.5	+ -	<0.5
Xylene (m & p)	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1 :	<0.5		<0.5	-	<0.5	1	<0.5	+ -	<0.5
Xylene Total	mg/kg	0.5					<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	< 0.5	-	<0.5	-	<0.5
TRH - NEPM 2013																							
F1 (C6-C10 minus BTEXN)	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	<10
C6-C10 Fraction	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	-	<10	-	<10	-	<10	-	<10	-	<10
F2 (>C10-C16 minus Naphthalene)	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	-	<50	-	<50	-	<50	-	<50	-	<50
>C10-C16 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	-	<50	-	<50	-	<50	-	<50	-	<50
F3 (>C16-C34 Fraction)	mg/kg	100					<100	<100	<100	<100	<100 <100	<100	<100	-	<100	-	<100	-	<100	-	<100	-	<100
F4 (>C34-C40 Fraction)	mg/kg	100					<100	<100	<100	<100			<100	-	<100		<100	-	<100	-	<100	-	<100
>C10-C40 (Sum of Total) TRH - NEPM 1999	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	-	<50	-	<50	-	<50	-	<50	-	<50
C6-C9 Fraction		10	2600	650	100		<10	-40	-10	<10	e10	-40	-40	_	-40		-40		-40		-40		<10
C10-C14 Fraction	mg/kg mg/kg	50	2000	650	100		<50	<10 <50	<10 <50	<50	<50	<50	<10	-	<10	-	<10	-	<50	-	<10 <50	-	<50
C15-C28 Fraction	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	-	<100		<100	-	<100	-	<100	-	<100
C29-C36 Fraction	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	-	<100	-	<100	-	<100	-	<100	-	<100
C10-C36 (Sum of Total)	mg/kg	50	40000	10000	1000		<50	<50	<50	<50	<50	<50	<50		<50		<50		<50	-	<50		<50
PAHs																							
Sum of polycyclic aromatic hydrocarbons	mg/kg	0.5					<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	< 0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5
Acenaphthene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5
Acenaphthylene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	< 0.5
Anthracene Benz(a)anthracene	mg/kg	0.5					<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5	<0.5 <0.5	-	<0.5 <0.5	-	<0.5	-	<0.5 <0.5	-	<0.5	-	<0.5 <0.5
	mg/kg mg/kg	0.5	20	5	1	0.02	<0.5	<0.5	×0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	<0.5	-	×0.5	-	<0.5
Benzo(a) pyrene Benzo(b+j+k)fluoranthene	mg/kg	0.5	20	,		0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5		<0.5		<0.5		<0.5		<0.5
Benzo(g,h,i)perylene	mg/kg	0.5					< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	-	< 0.5		< 0.5	-	<0.5	-	<0.5	-	< 0.5
Chrysene	mg/kg	0.5					< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	-	< 0.5	-	<0.5	-	<0.5		<0.5	-	< 0.5
Dibenz(a,h)anthracene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	< 0.5
Fluoranthene	mg/kg	0.5					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5
Fluorene	mg/kg	0.5					<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	-	< 0.5	-	< 0.5	-	< 0.5	-	<0.5	-	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5
Naphthalene Phenanthrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	+ -	<0.5	-	<0.5	+ -	<0.5 <0.5	+	<0.5	-	<0.5
PAHs (Sum of total) - Lab calc	mg/kg mg/kg	0.5		100	20		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	+ :	<0.5		<0.5	+ :-	<0.5	+ :-	<0.5		<0.5 <0.5
Total 8 PAHs (as BaP TEQ)(zero LOR) - La		0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	<0.5		<0.5	+ :	<0.5	1	<0.5	+ -	<0.5
Total 8 PAHs (as BaP TEQ)(half LOR) - Lat		0.5					0.6	0.6	0.6	0.6	0.6	0.6	0.6		0.6		0.6		0.6	1	0.6		0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab	b Calc mg/kg	0.5					1.2	1.2	1.2	1.2	1.2	1.2	1.2	-	1.2	-	1.2	-	1.2	-	1.2	-	1.2
Phenois	1 .									1		1			1	1	1	1			1		
Phenois(halogenated) - Lab Calc	mg/kg	0.03				40	< 0.03	< 0.03	-	-	-	-	<1	-	<1	-	<1	-	<1	-	<1	-	<1
3/4-Methylphenol (m/p-cresol)	mg/kg	1					<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-
Phenois (non-halogenated) - Lab Calc	mg/kg	1				280	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-		-	-
2,3,5,6-Tetrachlorophenol	mg/kg	0.03					<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	-	< 0.03	-	<0.03	-	< 0.03	-	<0.03	-	<0.03
2,4,5-trichlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	-	< 0.05	-	<0.05	-	< 0.05	-	<0.05	-	<0.05
2,4,6-trichlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	< 0.05	-	< 0.05	-	<0.05	-	< 0.05	-	<0.05	-	<0.05
2,4-dichlorophenol	mg/kg	0.03					< 0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	<0.03	-	<0.03	-	<0.03	-	< 0.03	-	< 0.03	-	<0.03
2,4-dimethylphenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	-	<1	-	<1
2,4-dinitrophenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	-	<5	-	<5	-	<5	-	<5	-	<5
2,6-dichlorophenol	mg/kg	0.03					< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	-	<0.03	-	<0.03	-	< 0.03	-	< 0.03	-	< 0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	mg/kg	0.05					< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	-	< 0.05	-	<0.05	-	<0.05
2-chlorophenol	mg/kg	0.03					< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	<0.03
2-methylphenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	-	<1	-	<1	-	<1	1 -	<1	-	<1
2-nitrophenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	+	<1	-	<1	-	<1	+	<1	-	<1
4,6-Dinitro-o-cyclohexyl phenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	+ -	<5	-	<5	+ -	<5	+ -	<5	+ -	<5
4-chloro-3-methylphenol 4-nitrophenol	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	+ -	<0.03	-	<0.03	+ -	<0.03	+ -	<0.03	+ -	<0.03 <5
	mg/kg	0.2						<0.2	<0.2	<0.2		<0.2		1			<0.2	1		+ -	<0.2	_	
Pentachlorophenol Phenol	mg/kg mg/kg	1					<0.2	×0.2	×0.2	-0.Z	<0.2	×0.2	<0.2	+ :	<0.2		NO.2	+ :	<0.2	+ :-	×0.2	_	<0.2
Phenois (Total Halogenated)	mg/kg	0.03					-	-	<0.03	<0.03	<0.03	<0.03	<0.03	+ -	<0.03		<0.03	+ -	<0.03	+ -	<0.03	1	<0.03
Phenois (Total Non Halogenated)	mg/kg	1					-		<1	<1	<1	<1	<1	1	<1		<1	1	<1	1	<1	1	<1
	1								1														



Summary of Soil Analytical Results

L	ocation Code	NEL-BH126	NEL-BH126	NEL-BH126	NEL-BH126	NEL-BH126	NEL-BH126	NEL-BH126	NEL-BH127	NEL-BH127	NEL-BH127	NEL-BH127	NEL-BH127	NEL-BH127	NEL-BH127	NEL-BH128	NEL-BH128A	NEL-BH128A
D	epth	0.3 - 0.4	0.3 - 0.4	0.7 - 0.8	1 - 1.1	1.5 - 1.6	2 - 2.1	3 - 3.1	0.25 - 0.35	0.6 - 0.7	1.05 - 1.15	1.5 - 1.6	2 - 2.1	2.5 - 2.6	3 - 3.1	0.5 - 0.6	0.23 - 0.33	0.23 - 0.33
D	ate	17/01/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018	31/01/2018	31/01/2018	30/01/2018	30/01/2018	30/01/2018	30/01/2018	31/01/2018	31/01/2018	31/01/2018	15/01/2018	30/01/2018	30/01/2018
F	leld ID	NEL-BH126_0.3m	NEL-BH126_0.3	NEL-BH126_0.7m	NEL-BH126_1.0m	NEL-BH126_1.5m	NEL-BH126_2.0	NEL-BH126_3.0	NEL-BH127_0.25m	NEL-BH127_0.6m	NEL-BH127_1.05m	NEL-BH127_1.50m	NEL-BH127_2.0m	NEL-BH127_2.5m	NEL-BH127_3.0m	NEL-BH128_0.5m	NEL-BH128A_0.23	NEL-BH128A_0.23m
8	ample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
L	ab Report Number	EM1801471	EM1803435	EM1801471	EM1801471	EM1801471	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1801471	EM1803435	EM1802245

						Lab Report Number	EM1801471	EM1803435	EM1801471	EM1801471	EM1801471	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1801471	EM1803435	EM1802245
						EPA Victoria IWRG 621																	
			EPA Victorie IWRG	EPA Victoria IWRG	EPA Victoria IWRG	Trigger for Leachate																	
	Unit	EQL	621 Category B	621 Category C	621 Clean Fill	Testing																	
Inorganics Cyanide (Total)																							
Cyanide (Total)	mg/kg	- 1	10000	2500	50	160	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	1
Major lons			40000	10000		3000																	
Fluoride Metals	mg/kg	40	40000	10000	450	3000	190	-	240	280	320	310	220	290	200	230	240	240	240	230	320	-	290
Arsenic	mg/kg	5	2000	500	20	14	<5	<5	<5	6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	6	5
Cadmium	mg/kg	1	400	100	3	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium (hexavalent)	mg/kg	0.5	2000	500	1	100	< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	-	<0.5
Chromium (III+VI)	mg/kg	2					-	26			-	-	-	-	-	-	-	-	-	-	-	39	
Copper Lead	mg/kg	5	20000 6000	5000 1500	100 300	4000 20	14	13	7	9	15	13	8 9	7	8 11	8 9	7	14	10	12	11	17	12
Mercury	mg/kg	5	300	75	300	20	<0.1	<0.1	13	14	10	11	9	10	<0.1	9	11	9	9	8	16	21 <0.1	23 <0.1
Molybdenum	mg/kg mg/kg	2	4000	1000	40	100	<2	<2	<2	<2	<2	<0.1	<2	<0.1	<2	<0.1	<2	<0.1	<2	-0.1	<2	<2	<2
Nickel	mg/kg	2	12000	3000	60	40	21	16	10	11	14	15	13	16	14	14	13	20	16	16	19	21	14
Selenium	mg/kg	5	200	50	10	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Silver	mg/kg	2	720	180	10	200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tin Zinc	mg/kg	5	140000	500 35000	50	6000	<5 88	<5 113	<5 24	<5 18	<5 26	<5 24	<5 27	<5 11	<5 13	<5 24	<5	<5 39	<5 38	<5 37	<5 42	<5 80	<5
BTEXN	mg/kg	5	140000	35000	200	6000	88	113	24	18	26	24	2/	- 11	13	24	25	39	38	3/	42	80	66
Benzene	mg/kg	0.2	16	4	1	2	<0.2		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		<0.2
Toluene	mg/kg	0.5					<0.5	-	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	-	<0.5
Ethylbenzene	mg/kg	0.5					< 0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Xylene (o)	mg/kg	0.5					<0.5	-	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	-	<0.5
Xylene (m & p) Xylene Total	mg/kg	0.5					< 0.5	-	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
TRH - NEPM 2013	mg/kg	0.5					<0.5		*-U.5	*U.5	5U.D	5U.0	50.0	*U.D	50.5	*U.5	*U.5	*U.D	*-0.5	50.0	<0.5		<0.5
F1 (C6-C10 minus BTEXN)	mg/kg	10					<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
C6-C10 Fraction	mg/kg	10					<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
F2 (>C10-C16 minus Naphthalene)	mg/kg	50					<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	<50
>C10-C16 Fraction	mg/kg	50					<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	<50
F3 (>C16-C34 Fraction) F4 (>C34-C40 Fraction)	mg/kg	100					<100 <100	-	<100	<100	<100	<100 <100	<100	<100	<100	<100 <100	<100	<100	<100	<100	<100	-	<100 <100
>C10-C40 (Sum of Total)	mg/kg mg/kg	50					<50		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50		<50
TRH - NEPM 1999	Iliging	- 50					-50		-50	-50	-50	-00	-50	-50	-50	-50	-50	-50	-00	-50	-50		-00
C6-C9 Fraction	mg/kg	10	2600	650	100		<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
C10-C14 Fraction	mg/kg	50					<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	-	<50
C15-C28 Fraction C29-C36 Fraction	mg/kg	100					<100 <100	-	<100 <100	<100	<100	<100	<100	<100	<100	<100 <100	<100	<100	<100	<100	<100	-	<100
C10-C36 (Sum of Total)	mg/kg mg/kg	100	40000	10000	1000		<100 <50	-	<100	<100	<100	<100	<100 <50	<100	<100 <50	<100	<100	<100	<100	<100	<100	-	<100
PAHs	ingrkg	50	40000	10000	1000		<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<5U	<50	<50	-	<00
Sum of polycyclic aromatic hydrocarbons	mg/kg	0.5						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	mg/kg	0.5					< 0.5	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	<0.5
Acenaphthene	mg/kg	0.5					<0.5	-	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	-	< 0.5
Acenaphthylene	mg/kg	0.5					< 0.5	-	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5 <0.5	< 0.5	< 0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5 <0.5	-	<0.5 <0.5
Anthracene Benz(a)anthracene	mg/kg	0.5					<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
	mg/kg mg/kg	0.5	20	5	1	0.02	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
Benzo(a) pyrene Benzo(b+j+k)fluoranthene	mg/kg	0.5					<0.5	-	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	-	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5					<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Chrysene	mg/kg	0.5					<0.5	-	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	-	<0.5
Dibenz(a,h)anthracene Fluoranthene	mg/kg mg/kg	0.5					< 0.5	-	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	-	<0.5
Fluorene	mg/kg	0.5					<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5					<0.5	-	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	-	<0.5
Naphthalene	mg/kg	0.5					<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5
Phenanthrene	mg/kg	0.5					<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	-	<0.5
PAHs (Sum of total) - Lab calc Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab	mg/kg	0.5		100	20		<0.5 <0.5	-	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	-	<0.5 <0.5
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab	Calmaka	0.5					<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab	Calo mg/kg	0.5					1.2	1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	-	1.2
Phenois	100							1	1	1	1		1	1	1	1	1	1	1	1	1	1	1
Phenois(halogenated) - Lab Calc	mg/kg	0.03				40	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
3/4-Methylphenol (m/p-cresol)	mg/kg	1					-	-	-	-		-		-	-				-	-	-		
Phenois (non-halogenated) - Lab Calc	mg/kg	1				280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,5,6-Tetrachlorophenol	mg/kg	0.03					<0.03	-	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	-	<0.03
2,4,5-trichlorophenol 2,4,6-trichlorophenol	mg/kg mg/kg	0.05					<0.05	-			<0.05	< 0.05		<0.05	<0.05	<0.05			<0.05		<0.05	-	<0.05
2,4,6-trichlorophenol 2,4-dichlorophenol	mg/kg mg/kg	0.05					<0.05	-	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 <0.03	<0.05	<0.05	<0.05	<0.05	1	<0.05 <0.03
2,4-dimethylphenol	mg/kg	1					<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
2,4-dinitrophenol	mg/kg	5					<5	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5
2,6-dichlorophenol	mg/kg	0.03					<0.03	-	<0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	-	< 0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	mg/kg	0.05					< 0.05		<0.05	<0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	<0.05
2-chlorophenol	mg/kg	0.03					< 0.03	-	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	-	< 0.03
2-methylphenol	mg/kg	1					<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
2-nitrophenol	mg/kg	1 5					<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
4,6-Dinitro-o-cyclohexyl phenol 4-chloro-3-methylphenol	mg/kg mg/kg	0.03					<0.03	-	<0.03	*0.03	<0.02	<0.03	<0.03	*0 *0.03	<0.03	<0.03	<0 n3	<0 no	<0.03	40 03	<0.03		<0.03
	mg/kg mg/kg	5					<0.03 <5	1 -	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5		<5
4-nitrophenol							<0.2	+ -	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	t .	<0.2
4-nitrophenol Pentachlorophenol	mg/kg	0.2																					
Pentachlorophenol Phenol	mg/kg mg/kg	0.2					<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1
Pentachlorophenol	mg/kg	0.2 1 0.03								<1 <0.03							<1 <0.03					-	<1 <0.03



Summary of Soil Analytical Results

Location Code	NEL-BH128A	NEL-BH128A	NEL-BH128A	NEL-BH128A	NEL-BH131	NEL-BH131	NEL-BH132	NEL-BH132	NEL-BH133	NEL-BH133	NEL-BH135	NEL-BH135	NEL-BH137	NEL-BH137	NEL-BH137	NEL-BH137	NEL-BH137
Depth	0.45 - 0.55	0.9 - 1	1.2 - 1.3	1.2 - 1.3	0.1 - 0.2	0.5 - 0.6	0.1 - 0.2	1 - 1.1	0.1 - 0.2	1 - 1.1	0.2 - 0.3	1 - 1.1	0.1 - 0.2	0.1 - 0.2	0.1 - 0.2	0.7 - 0.8	1.2 - 1.3
Date	30/01/2018	30/01/2018	30/01/2018	30/01/2018	20/03/2018	20/03/2018	20/03/2018	20/03/2018	20/03/2018	20/03/2018	25/06/2018	25/06/2018	22/02/2018	22/02/2018	22/02/2018	22/02/2018	22/02/2018
Field ID	NEL-BH128A_0.45m	NEL-BH128A_0.9m	NEL-BH128A_1.2m	NEL-BH128A_1.2	NEL-BH131_0.1m	NEL-BH131_0.5m	NEL-BH132_0.1m	NEL-BH132_1.0m	NEL-BH133_0.1m	NEL-BH133_1.0m	NEL-BH135_0.2m	NEL-BH135_1.0m	NEL-BH137_0.1m	QC1000	QC2000	NEL-BH137_0.7m	NEL-BH137_1.2m
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Field_D	Normal	Normal
Lab Report Number	EM1802245	EM1802245	EM1802245	EM1803435	EM1805002	EM1805002	EM1805002	EM1805002	EM1805002	EM1805002	EM1810219	EM1810219	EM1803587	EM1803587	EM1803587	EM1803587	EM1803587

						Lab Report Number	EM1802245	EM1802245	EM1802245	EM1803435	EM1805002	EM1805002	EM1805002	EM1805002	EM1805002	EM1805002	EM1810219	EM1810219	EM1803587	EM1803587	EM1803587	EM1803587	EM1803587
			EDA Matada IMBO	EPA Victoria IWRG	EDA Medada IMBO	EPA Victoria IWRG 621																	
	Unit		621 Category B	621 Category C	621 Clean Fill	Trigger for Leachate Testing																	
Inomenica	Olik	EGL	021 Category B	021 Category C	021 Ciedii Fili	resurg		1	1	1		1		1	1		1	1	1	1		1	
Inorganics Cyanide (Total)	mg/kg	1	10000	2500	50	160	<1	<1	<1	-	<1	<1	1	<1	1	<1	1	<1	<1	<1	<1	<1	<1
Major Iona																							
Fluoride	mg/kg	40	40000	10000	450	3000	610	380	300	-	260	400	370	340	370	320	150	370	510	660	670	60	250
Metals		-																					
Arsenic Cadmium	mg/kg	5	2000	500 100	20	14	<5	7	6	8 2	<5	<5	6	<5	<5	<5	<5	<5	6	16	6	<5	<5
Chromium (hexavalent)	mg/kg mg/kg	0.5		500	3	100	<1	<1	<2	2	<1	<1	<1	<0.5	<1	<1	<1	<0.5	<0.5	<0.5	<1	<1	<0.5
Chromium (III+VI)	mg/kg	2	2000	500		100	-0.0	-0.0	-0.0	50	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
Copper	mg/kg	5	20000	5000	100	4000	12	15	40	222	13	15	16	9	12	9	7	12	13	14	13	<5	9
Lead	mg/kg	5	6000	1500	300	20	19	18	123	139	14	15	19	11	17	10	23	10	<5	<5	<5	7	7
Mercury	mg/kg	0.1	300	75	1	2	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	< 0.1	<0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	2	4000	1000	40	100	<2	<2	<2	<2 30	<2	<2	<2	<2	<2 17	<2	<2	<2	<2	<2 14	<2	<2	6
Nickel Selenium	mg/kg mg/kg	2	12000 200	3000 50	60	40 20	19	26	27	30 <5	14	28	27	15	17	16	6	28 <5	14 <5	14	14	4	12 <5
Silver	mg/kg	2	720	180	10	200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	- 0
Tin	mg/kg	5		500	50		<5	<5	6	13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Zinc	mg/kg	5	140000	35000	200	6000	51	41	2,820	2,740	36	44	65	33	43	25	33	25	34	37	34	27	9
BTEXN																							
Benzene	mg/kg	0.2		4	1	2	<0.2	<0.2	<0.2	-	<0.2	< 0.2	<0.2	< 0.2	< 0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2
Toluene Ethylbenzene	mg/kg	0.5					<0.5 <0.5	<0.5	<0.5	-	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5
Xylene (o)	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	+ -	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5 <0.5
Xylene (m & p)	mg/kg	0.5					<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene Total	mg/kg	0.5					<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH - NEPM 2013																							
F1 (C6-C10 minus BTEXN)	mg/kg	10					<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C6-C10 Fraction	mg/kg	10					<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10 <50
F2 (>C10-C16 minus Naphthalene) >C10-C16 Fraction	mg/kg	50					<50	<50 <50	<50	-	<50	<50 <50	<50 <50	<50 <50	<50 <50	<50	<50	<50	<50 <50	<50 <50	<50	<50 <50	<50 <50
F3 (>C16-C34 Fraction)	mg/kg mg/kg	100					<00	<100	160	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F4 (>C34-C40 Fraction)	mg/kg mg/kg	100					<100	<100	<100	+	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of Total)	mg/kg	50					<50	<50	160	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TRH - NEPM 1999																							
C6-C9 Fraction	mg/kg	10	2600	650	100		<10	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C10-C14 Fraction	mg/kg	50					<50	<50	<50	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15-C28 Fraction C29-C36 Fraction	mg/kg	100					<100 <100	<100	<100 120	-	<100 <100	<100 <100	<100 <100	<100 <100	<100 <100	<100	<100 <100						
C10-C36 (Sum of Total)	mg/kg mg/kg	50	40000	10000	1000		<50	<50	120	-	<100	<50	<50	<50	<100	<100	<100	<100	<50	<100	<100	<50	<50
PAHs	Iliging	30	40000	10000	1000		V30	~30	120		~50	V.00	-50	-30		~30	~30	V30	V30		-00	-30	
Sum of polycyclic aromatic hydrocarbons	mg/kg	0.5								-	-	-	-	-	-	-	<0.5	< 0.5	-	-		-	
Pyrene	mg/kg	0.5					<0.5	<0.5	< 0.5	-	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5
Acenaphthene	mg/kg	0.5					<0.5	< 0.5	< 0.5	-	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5
Acenaphthylene	mg/kg	0.5					<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5 <0.5
Anthracene Benz(a)anthracene	mg/kg	0.5					<0.5 <0.5	<0.5	<0.5 <0.5	-	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5
Benzo(a) pyrene	mg/kg mg/kg	0.5		5	1	0.02	<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j+k)fluoranthene	mg/kg	0.5					<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5					<0.5	< 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	0.5					<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5
Dibenz(a,h)anthracene	mg/kg	0.5					<0.5	<0.5	<0.5	-	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Fluoranthene	mg/kg	0.5					<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene Indeno(1,2,3-c,d)pyrene	mg/kg mg/kg	0.5					<0.5 <0.5	<0.5 <0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5	<0.5 <0.5	<0.5 <0.5
Naphthalene	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	+ :	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	0.5					<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total) - Lab calc	mg/kg	0.5	400	100	20		<0.5	< 0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab C	Camg/kg	0.5					<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(half LOR) - Lab Ca	al mg/kg	0.5					0.6	0.6	0.6	-	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab Ca Phenois	aid mg/kg	0.5					1.2	1.2	1.2	-	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	malka	0.03				40	<1	<1	<1	+			1	+	+ -	1	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	en n3
Phenois(halogenated) - Lab Calc 3/4-Methylphenol (m/p-cresol)	mg/kg mg/kg	1				40			-	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.03
Phenois (non-halogenated) - Lab Calc	mg/kg	1				280	-	-	-		-	-		-	-	-	<1	<1	<1	<1	<1	<1	<1
2,3,5,6-Tetrachlorophenol	mg/kg	0.03					< 0.03	<0.03	<0.03	-	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03
2,4,5-trichlorophenol	mg/kg	0.05					< 0.05	<0.05	<0.05	-	< 0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05
2,4,6-trichlorophenol	mg/kg	0.05					<0.05	< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	< 0.05	<0.05	<0.05 <0.03
2,4-dichlorophenol	mg/kg	0.03					< 0.03	< 0.03	< 0.03		< 0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	
2,4-dimethylphenol	mg/kg	1					<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-dinitrophenol	mg/kg	5					<5	<5	<5	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2,6-dichlorophenol	mg/kg	0.03					<0.03	< 0.03	<0.03	-	<0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	mg/kg	0.05					<0.05	<0.05	< 0.05	-	< 0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	< 0.05	<0.05
2-chlorophenol	mg/kg	0.03					<0.03	<0.03	<0.03	-	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03
2-methylphenol 2-nitrophenol	mg/kg mg/kg	1 1					<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4,6-Dinitro-o-cyclohexyl phenol	mg/kg mg/kg	5					<5	<5	<5	+ -	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-chloro-3-methylphenol	mg/kg	0.03					<0.03	<0.03	<0.03		<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
4-nitrophenol	mg/kg	5					<5	<5	<5	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Pentachlorophenol	mg/kg	0.2					<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenol	mg/kg	- 1					<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenois (Total Halogenated)	mg/kg	0.03					<0.03	< 0.03	< 0.03		<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	-	-	-		-	1	-
Phenois (Total Non Halogenated)	mg/kg	1					<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-	-	-		-		-



Summary of Soil Analytical Results

Ī.	ocation Code	NEL-BH137	NEL-BH138	NEL-BH138	NEL-BH138	NEL-BH140	NEL-BH140	NEL-BH140	NEL-BH140	NEL-BH140	NEL-BH140	NEL-BH141	NEL-BH141	NEL-BH142	NEL-BH142	NEL-BH143	NEL-BH143	NEL-BH144
	epth	1.5 - 1.6	0.35 - 0.45	1 - 1.1	1.5 - 1.6	0.2 - 0.3	0.5 - 0.6	1 - 1.1	4.5 - 4.6	6 - 6.1	7.95 - 8.05	0.2 - 0.3	0.7 - 0.8	0.2 - 0.3	1 - 1.1	0.2 - 0.3	1 - 1.1	0.1 - 0.2
	ate	22/02/2018	5/06/2018	5/06/2018	5/06/2018	27/02/2018	27/02/2018	27/02/2018	28/02/2018	28/02/2018	28/02/2018	2/07/2018	2/07/2018	3/07/2018	3/07/2018	4/07/2018	4/07/2018	17/05/2018
F	eld ID	NEL-BH137_1.5m	NEL-BH138_0.35m	NEL-BH138_1.0m	NEL-BH138_1.5m	NEL-BH140_0.2m	NEL-BH140_0.5m	NEL-BH140_1.0m	NEL-BH140_4.5m	NEL-BH140_6.0m	NEL-BH140_7.95m	NEL-BH141_0.2m	NEL-BH141_0.75m	NEL-BH142_0.2m	NEL-BH142_1.0m	NEL-BH143_0.2m	NEL-BH143_1.0m	NEL-BH144_0.1m
s	ample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
L	ab Report Number	EM1803587	EM1809234	EM1809234	EM1809234	EM1803724	EM1803724	EM1803724	EM1803919	EM1803919	EM1803919	EM1810580	EM1810580	EM1810780	EM1810780	EM1810779	EM1810779	EM1808218

The column 1		_					Lab Report Number	EW1003307	EM1809234	EM1809234	EM1809234	EM1803724	EM1803724	EM1803724	EM1803919	EM1803919	EM1803919	EM1810580	EM1810580	EM1810780	EM1810780	EM1810779	EM1810779	EM1808218
Part							EDA Victoria IWDG 821																	
No. March				EPA Victoria IWRG	EPA Victoria IWRG	EPA Victoria IWRG																		
The color 1		Unit	FOL	621 Celegory B	621 Cetenory C	621 Clean Fill																		
The column	Inorganics			an outage, j	on only o	021 010211111	100000																	
The column The	Cyanide (Total)	mg/kg	1	10000	2500	50	160	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
The column	Major Ions																							
Second Control 1	Fluoride	mg/kg	40	40000	10000	450	3000	300	130	220	250	180	50	230	200	360	400	220	330	160	470	230	290	190
The content		and the	-	2000	500	00					_													
Second Column C		mg/kg mg/kg	- 5					<5	<5	11	5	< 0	<5	<5	- 6	<5	<5	<5	9	<5	/	<5	<5	5
Second			0.5		500	1		en 5	<0.5	r0.5	<0.5	×0.5	en 5	×0.5	<0.5	e0.5	×0.5	×0.5	×0.5	<0.5	0.6	(0.5	r0.5	<0.5
Second column		ma/ka		2000	500		100	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0		-0.0	-0.0	-0.0
The column	Copper	mg/kg	5	20000	5000	100	4000	13	<5	8	7	27	<5	9	13	7	7	10	11	6	21	11	8	9
Second S	Lead	mg/kg				300			8	11	13	9	<5	12	13	12		24	15	14	13	26	11	20
Second Column C	Mercury	mg/kg				1		0.1	<0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	<0.1
The color 1	Molybdenum							<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Dec		mg/kg		12000	3000				7				<2							6	39			11
The column The		mg/kg mg/kg	-					<0		< 2	< 2		<0		< 2	<0	< 2	< 0	< 2		< 0	<0	<0	< 2
The column	Tin			720			200	<z< td=""><td></td><td><5</td><td><2 e5</td><td>×2</td><td><z< td=""><td>*2 #5</td><td><2 e5</td><td>*Z</td><td>*Z</td><td>*Z</td><td><5</td><td>*2 #5</td><td>< 2</td><td>*Z</td><td><2</td><td><2 <5</td></z<></td></z<>		<5	<2 e5	×2	<z< td=""><td>*2 #5</td><td><2 e5</td><td>*Z</td><td>*Z</td><td>*Z</td><td><5</td><td>*2 #5</td><td>< 2</td><td>*Z</td><td><2</td><td><2 <5</td></z<>	*2 #5	<2 e5	*Z	*Z	*Z	<5	*2 #5	< 2	*Z	<2	<2 <5
Fig.		maka		140000			6000	15		8	8	34	<5	14	16	12	21	49	22	40	46	55	26	37
Table										_		-				-	-							-
Column	Benzene	mg/kg	0.2	16	4	1	2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	<0.2	< 0.2	<0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	<0.2	< 0.2	< 0.2
Column	Toluene							<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5
March Marc	Ethylbenzene	mg/kg	0.5					<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5
West		mg/kg												<0.5		<0.5					< 0.5	<0.5	<0.5	< 0.5
	Xylene (m & p)	mg/kg												<0.5		<0.5					<0.5	<0.5	<0.5	
Fig. 10	Ayrene Total	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Mathematics		malka	10					×10	<10	<10	e10	e10	e10	e10	<10	×10	<10	r10	e10	×10	x10	<10	<10	c10
Proceedings	C6-C10 Fraction								<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Control Cont												<50	<50	<50	<50				<50	<50	<50	<50	<50	<50
Table Tabl	>C10-C16 Fraction							<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Proc. Proc	F3 (>C16-C34 Fraction)							<100	<100	<100	<100	270	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
## CALLED AND AND ADDRESS OF STATE AND ADDRESS OF S		mg/kg										<100	<100	<100	<100	<100				<100	<100	<100	<100	<100
Section		mg/kg	50					<50	<50	<50	<50	270	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Section Column																								
Color Colo		mg/kg		2600	650	100		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Color Colo	C10-C14 Fraction							<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Fig.																<100					<100			
## Part		mg/kg		40000	10000	1000		<100 <50	<100	<100	<100		<100	<100	<100	<100 <50	<100	<100 <50	<100 <50	<100	<100 <50	<100 <50	<100	<100
Second projection Physics Phys			- 50					-50	-00	-00	-50	010	-50	-00	-00	-00	-00	-00	-00	-50	-00	-50	-50	-50
Process Proc		mg/kg	0.5						<0.5	<0.5	< 0.5	-		-		-		<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5
According Column	Pyrene							<0.5	< 0.5	<0.5	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methodology 15 15 15 15 15 15 15 1														<0.5							<0.5			< 0.5
Descriptions Color	Acenaphthylene							<0.5		<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Processor Proc	Anthracene							<0.5		<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5
Second-year-informer		mg/kg mg/kg		20	5	- 1	0.02																	
Service May 1.5	Benzo(b+i+k)fluoranthene	ma/ka		20	-		0.02	<0.5		<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Control								< 0.5		< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5
Properties mg 0.5 mg 0.	Chrysene	mg/kg	0.5					< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5
Properties Page 0.5	Dibenz(a,h)anthracene	mg/kg	0.5					< 0.5	<0.5	< 0.5		< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Selection Sele												0.6	< 0.5	< 0.5						< 0.5	< 0.5	< 0.5		< 0.5
Note Presentative	Fluorene									<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	
Photographer mg/s 0.5 mg/s 0.5 mg/s 0.5 mg/s mg/s 0.5 mg/s mg/										<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PMS (Graf Stabl - Lab Cade mg/s 0.5		ma/ka								<0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total 8 Prists gas BPT TEXPORNOUS Last Complex 0.5 0				400	100	20			-	-	-	0.0	<0.5	<0.5		<0.5		-	-	-	-	-	-	-
Total 8 PMs (as Big TEQNIALOR). Lab Calegridge 0.5 0.6	Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab C	Camg/kg						< 0.5				0.9	<0.5	<0.5	< 0.5	<0.5	< 0.5				<0.5		<0.5	<0.5
Total PARIS (as Bight TEXT/MILEON) 1.0 1.2	Total 8 PAHs (as BaP TEQ)(half LOR) - Lab Ca	al mg/kg	0.5																					0.6
Phendelphogenetation mg/kg 0.3 0.3 0.0	Total 8 PAHs (as BaP TEQ)(full LOR) - Lab Ca	ald mg/kg	0.5					1.2	1.2	1.2	1.2	1.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Selection Part Selection	Phenois															1								
Phonois from Audioperated Lab Calc Impligation Lab Calc Implication Lab Calc Lab Cal		mg/kg					40	< 0.03		< 0.03		-	-	-	-	-	-			< 0.03	<0.03	< 0.03		< 0.03
23.5 Febroleoghenol mg/kg 0.05	3/4-Methylphenol (m/p-cresol)							<1		<1		<1	<1	<1	<1	<1	<1			<1	<1	<1		<1
2.46-infulnophenol mg/kg 0.05							280	<1	<1	<1	<1	-0.00	-0.00	-0.07	-0.00	-0.00	-0.00	<1	<1	<1	<1	<1	<1	<1
2.4-dishbarquiend								<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03 <0.05
2.4-distripophenol mp/kg 1																								
2.4-dimblyohenol mpkg 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																								< 0.05
24-dishterophenol								*0.03	50.03	*0.03	50.03	*0.03	<0.03	*0.03	<u.u3< td=""><td>*0.03</td><td><u.u3< td=""><td>*0.03</td><td>50.03</td><td>*0.03</td><td><0.03</td><td>*0.03</td><td>50.03</td><td>< 0.03</td></u.u3<></td></u.u3<>	*0.03	<u.u3< td=""><td>*0.03</td><td>50.03</td><td>*0.03</td><td><0.03</td><td>*0.03</td><td>50.03</td><td>< 0.03</td></u.u3<>	*0.03	50.03	*0.03	<0.03	*0.03	50.03	< 0.03
2.46 formation mg/kg 0.05								- 51	×1	- 51	< 1	- 51	×1	×1	<1	51	×1	×1	- 51	×1		51	51 25	<1
23.5.6.2.3.6.Freachtroppened mg/kg 0.05													-0		-0					-0			-0	<0.03
2-dendepotend mg/kg 1																								<0.05
2-minylphenel mg/kg 1																								<0.03
2ntrophenol mp/kg 1		ma/ka						<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
45. Direct organization Marked Ma	2-nitrophenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-blood-methylphenol mp/kg 0.03								<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-fraction mykg 5	4-chloro-3-methylphenol							< 0.03		< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03
Pentad/Rodphenol mg/kg 0.2 d2 d2 d2 d2 d2 d2 d2	4-nitrophenol		5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Phenois (Total Halogenated) mg/kg 0.03		mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2
Phenois (Tolal Haliagensted) mg/kg 0.03								<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenois (Total Non Habagenaled) mg/kg 1	Phenois (Total Halogenated)	mg/kg						-	-	-	-	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	-	-	-	-	-	-
	Phenois (Total Non Halogenated)	mg/kg	1					-	-	-		<1	<1	<1	<1	<1	<1	-	-	1 -	-	-	-	-

Summary of Soil Analytical Results

Lo	ation Code	NEL-BH144	NEL-BH150	NEL-BH150	NEL-BH151	NEL-BH151	NEL-BH151	NEL-BH151	NEL-BH155	NEL-BH155	NEL-BH156	NEL-BH156	NEL-BH159	NEL-BH159	NEL-BH161	NEL-BH161	NEL-BH162	NEL-BH162
De	pth	1 - 1.1	0.1 - 0.2	1 - 1.1	0.1 - 0.2	1 - 1.1	1.5 - 1.6	1.5 - 1.6	0.2 - 0.3	1 - 1.1	0.1 - 0.2	0.5 - 0.6	0.2 - 0.3	1.5 - 1.6	0.2 - 0.3	0.5 - 0.6	0.2 - 0.3	1 - 1.1
Dα	8	17/05/2018	23/03/2018	23/03/2018	23/03/2018	23/03/2018	23/03/2018	23/03/2018	31/05/2018	31/05/2018	24/05/2018	24/05/2018	14/05/2018	14/05/2018	13/06/2018	13/06/2018	6/06/2018	6/06/2018
Fle	M ID	NEL-BH144_1.0m	NEL-BH150_0.1m	NEL-BH150_1.0m	NEL-BH151_0.1m	NEL-BH151_1.0m	NEL-BH151_1.5m	QC1001	NEL-BH155_0.2m	NEL-BH155_1.0m	NEL-BH156_0.1m	NEL-BH156_0.5m	NEL-BH159_0.2m	NEL-BH159_1.5m	NEL-BH161_0.2m	NEL-BH161_0.5m	NEL-BH162_0.2m	NEL-BH162_1.0m
Sa	прів Туре	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal									
Lai	Report Number	EM1808218	EM1805158	EM1805158	EM1805158	EM1805158	EM1805857	EM1805158	EM1808885	EM1808885	EM1808553	EM1808553	EM1807877	EM1807877	EM1809532	EM1809532	EM1809233	EM1809233

	-					Lab Report Number	EM1808218	EM1805158	EM1805158	EM1805158	EM1805158	EM1805857	EM1805158	EM1808885	EM1808885	EM1808553	EM1808553	EM1807877	EM1807877	EM1809532	EM1809532	EM1809233	EM1809233
						EPA Victoria IWRG 621																	
					EPA Victoria IWRG	Trigger for Leachate																	
	Unit	EQL	621 Category B	621 Category C	621 Clean Fill	Testing																	
Inorganics Cyanide (Total)		1	10000	2500	50	160																	
Major Iona	mg/kg	1	10000	2000	30	100	<1	1	×1	-	<1	< 1	<1	<1		<1	<1	<1	<1	<1	<1		<1
Fluoride	mg/kg	40	40000	10000	450	3000	300	310	260	340	320	330	300	230	560	350	400	430	360	230	530	510	560
Metals																							
Arsenic	mg/kg	5	2000	500 100	20	14	<5	<5	<5	<5	<5	<5	<5	<5	8	<5	<5	8	7	<5	7	<5	<5
Chromium (hexavalent)	mg/kg mg/kg	0.5		500	1	100	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<0.5	<1	<1	<1	<1	<0.5
Chromium (III+VI)	mg/kg	2	2000	300		100	-0.0																
Copper	mg/kg	5	20000	5000	100	4000	9	12	8	10	10	6	6	11	19	16	20	18	16	5	17	<5	13
Lead	mg/kg	5		1500	300	20	9	22	7	13	12	9	10	16	24	28	15	24	17	18	15	7	12
Mercury	mg/kg	0.1	300 4000	75 1000	1	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	0.5	<0.1	<0.1
Molybdenum Nickel	mg/kg mg/kg	2		3000	60	40	16	16	14	14	13	9	10	19	46	32	50	32	26	4	17	5	28
Selenium	mg/kg	5	200	50	10	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Silver	mg/kg	2	720	180	10	200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tin Zinc	mg/kg	5	140000	500 35000	50 200	6000	<5 30	<5 47	<5 35	<5 34	<5 23	<5 18	<5 19	<5 22	<5 44	<5 80	<5 51	<5 46	<5 35	<5	<5 17	<5	<5 23
BTEXN	mg/kg	5	140000	35000	200	6000	30	47	35	34	23	10	19	22	44	80	51	40	35	- /	17	,	23
Benzene	mg/kg	0.2	16	4	1	2	<0.2	<0.2	< 0.2	<0.2	<0.2	< 0.2	< 0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	< 0.2	<0.2	< 0.2	< 0.2	< 0.2
Toluene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5
Xylene (o) Xylene (m & p)	mg/kg mg/kg	0.5					<0.5 <0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene Total	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH - NEPM 2013																							
F1 (C6-C10 minus BTEXN)	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C6-C10 Fraction F2 (>C10-C16 minus Naphthalene)	mg/kg mg/kg	10					<10 <50	<10 <50	<10	<10 <50	<10	<10	<10	<10	<10	<10	<10 <50	<10	<10 <50	<10	<10	<10	<10
F2 (>C10-C16 minus Naphthalene) >C10-C16 Fraction	mg/kg mg/kg	50					<50 <50	<50 <50	<50 <50	<50 <50	<50 <50	<50 <50	<50 <50	<50 <50	<50 <50	<50 <50	<50 <50	<50 <50	<50 <50	<50 <50	<50 <50	<50 <50	<50 <50
F3 (>C16-C34 Fraction)	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F4 (>C34-C40 Fraction)	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of Total)	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TRH - NEPM 1999 C6-C9 Fraction	ma fra	10	2600	650	100		<10	<10	<10	<10	-10	<10	<10	-10	<10	-10	<10	<10	<10	-10	-10	<10	<10
C10-C14 Fraction	mg/kg mg/kg	50	2000	030	100		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15-C28 Fraction	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29-C36 Fraction	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C10-C36 (Sum of Total)	mg/kg	50	40000	10000	1000		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Sum of polycyclic aromatic hydrocarbons	mg/kg	0.5					<0.5	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5
Acenaphthene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene Anthracene	mg/kg	0.5					<0.5	<0.5 <0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5 <0.5
Benz(a)anthracene	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a) pyrene	mg/kg	0.5	20	5	1	0.02	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5
Benzo(b+j+k)fluoranthene	mg/kg	0.5					<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene Dibenz(a,h)anthracene	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	mg/kg	0.5					<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene Nanhthalene	mg/kg	0.5					<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene Phenanthrene	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	< 0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5 <0.5
PAHs (Sum of total) - Lab calc	mg/kg	0.5	400	100	20		-0.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab	b Camg/kg	0.5					<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(half LOR) - Lab	Cal mg/kg	0.5					0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab C Phenois	Cald mg/kg	0.5					1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Phenois(halogenated) - Lab Calc	mg/kg	0.03				40	< 0.03		1 -	-	-	-	-	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03
3/4-Methylphenol (m/p-cresol)	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenois (non-halogenated) - Lab Calc	mg/kg	1				280	<1	-	-	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,3,5,6-Tetrachlorophenol	mg/kg	0.03					< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03
2,4,5-trichlorophenol	mg/kg	0.05					< 0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4,6-trichlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4-dichiorophenol 2,4-dimethylphenol							<1	<0.03	<1	<1	<1	<1	<1	<1	<1	<0.03	<0.03	<1	<1	<1	<1	<1	<0.03
	mg/kg mg/kg							_	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2,4-dinitrophenol		1 5					<5	<5															
2,4-dinitrophenol 2,6-dichlorophenol	mg/kg	1 5 0.03					<5 <0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
2,4-dinitrophenol 2,6-dichlorophenol 2,3,4,5 & 2,3,4,6-Tetrachlorophenol	mg/kg mg/kg mg/kg mg/kg	1 5 0.03 0.05					<0.03 <0.05	<0.03 <0.05	<0.03 <0.05	<0.05	< 0.05	< 0.05	<0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05	<0.05
2,4-dinitrophenol 2,6-dichlorophenol 2,3,4,5 & 2,3,4,6-Tetrachlorophenol 2-chlorophenol	mg/kg mg/kg mg/kg mg/kg	1 5 0.03 0.05 0.03					<0.03 <0.05 <0.03	<0.03 <0.05 <0.03	<0.03 <0.05 <0.03	<0.05 <0.03	<0.03 <0.05 <0.03	<0.03 <0.05 <0.03	<0.03 <0.05 <0.03	<0.05 <0.03	<0.05 <0.03	<0.05 <0.03	<0.05 <0.03	<0.05 <0.03	<0.05 <0.03	<0.03 <0.05 <0.03	<0.05 <0.03	<0.03 <0.05 <0.03	<0.05 <0.03
2,4-dinitrophenol 2,6-dichlorophenol 2,3,4,5-&2,3,4,6-Tetrachlorophenol 2-chlorophenol 2-methylphenol	mg/kg mg/kg mg/kg mg/kg mg/kg	1 5 0.03 0.05 0.03					<0.03 <0.05	<0.03 <0.05	<0.03 <0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05 <0.03 <1	<0.05	<0.05 <0.03 <1	< 0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05	<0.05 <0.03 <1
2,4-dinitrophenol 2,6-dichlorophenol 2,3-4,5 & 2,3,4,6-Tetrachlorophenol 2-chlorophenol 2-methylphenol 2-nitrophenol	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1 5 0.03 0.05 0.03					<0.03 <0.05 <0.03	<0.03 <0.05 <0.03	<0.03 <0.05 <0.03	<0.05 <0.03	< 0.05	< 0.05	<0.05	<0.05 <0.03	<0.05 <0.03	<0.05 <0.03	<0.05 <0.03	<0.05 <0.03	<0.05 <0.03	<0.05	<0.05 <0.03	< 0.05	<0.05 <0.03
2,4-dinitrophenol 2,6-dichlorophenol 2,3,4,5-&2,3,4,6-Tetrachlorophenol 2-chlorophenol 2-methylphenol	mg/kg mg/kg mg/kg mg/kg mg/kg	1 5 0.03 0.05 0.03 1 1					<0.03 <0.05 <0.03	<0.03 <0.05 <0.03	<0.03 <0.05 <0.03	<0.05 <0.03	< 0.05	< 0.05	<0.05	<0.05 <0.03 <1	<0.05 <0.03	<0.05 <0.03 <1	<0.05 <0.03	<0.05 <0.03	<0.05 <0.03	<0.05	<0.05 <0.03	< 0.05	<0.05 <0.03 <1
2.4-dinitrophenol 2.3.4.5 & 2.3.4.6-Tetrachiorophenol 2.3.4.5 & 2.3.4.6-Tetrachiorophenol 2midryophenol 2-midryophenol 2-midryophenol 4-binitro-o-cyclohexyl phenol 4-binitro-o-cyclohexyl phenol 4-binitro-o-midryophenol	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1 5 0.03 0.05 0.03 1 1 5 0.03					<0.03 <0.05 <0.03 <1 <1 <5	<0.03 <0.05 <0.03 <1 <1 <1	<0.03 <0.05 <0.03 <1 <1 <5	<0.05 <0.03	< 0.05	< 0.05	<0.05	<0.05 <0.03 <1 <1 <5	<0.05 <0.03	<0.05 <0.03 <1 <1 <5	<0.05 <0.03 <1 <1 <5	<0.05 <0.03 <1 <1 <5	<0.05 <0.03	<0.05	<0.05 <0.03	< 0.05	<0.05 <0.03 <1 <1 <5 <0.03
2.4-dichirophenol 2.6-dichirophenol 2.3.4.5 & 2.3.4.6-Tetrachiorophenol 2-chirophenol 2-nitrophenol 2-nitrophenol 2-nitrophenol 4.6-Dinitro-c-yciohexyi phenol 4-chiror-3-methytphenol 4-nitro-phenol Pentachirorophenol	mg/kg	1 5 0.03 0.05 0.03 1 1 5 0.03 5					<0.03 <0.05 <0.03 <1 <1 <5 <0.03 <5 <0.2	<0.03 <0.05 <0.03 <1 <1 <5 <0.03 <5 <0.03	<0.03 <0.05 <0.03 <1 <1 <5	<0.05 <0.03 <1 <1 <1 <5 <0.03 <5 <0.2	<0.05 <0.03 <1 <1 <5 <0.03 <5 <0.2	<0.05 <0.03 <1 <1 <1 <5 <0.03 <5 <0.03	<0.05 <0.03 <1 <1 <1 <5 <0.03 <5 <0.03	<0.05 <0.03 <1 <1 <1 <5 <0.03 <1 <1 <5 <0.03	<0.05 <0.03 <1 <1 <5 <0.03 <5 <0.2	<0.05 <0.03 <1 <1 <1 <5 <0.03 <1 <1 <1 <5 <0.03 <5 <0.03	<0.05 <0.03 <1 <1 <5	<0.05 <0.03 <1 <1 <5	<0.05 <0.03	<0.05	<0.05 <0.03 <1 <1 <5 <0.03 <5 <0.2	< 0.05	<0.05 <0.03 <1 <1 <5 <0.03
2.4-dintrophenol 2.3.4.5.8.2.3.4.6.Tetrachlorophenol 2.3.4.5.8.2.3.4.6.Tetrachlorophenol 2dinophenol 2dinophenol 2dinophenol 2dinophenol 4dinon-0-cyticheavj phenol 4dinon-3-methyphenol 4dinon-3-methyphenol 4	mg/kg	1 5 0.03 0.05 0.03 1 1 5 0.03 5 0.2					<0.03 <0.05 <0.03 <1 <1 <5	<0.03 <0.05 <0.03 <1 <1 <5 <0.03 <5 <0.03 <5	<0.03 <0.05 <0.03 <1 <1 <5 <0.03 <5 <0.2 <1	<0.05 <0.03 <1 <1 <1 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.2 <1	<0.05 <0.03 <1 <1 <1 <5 <0.03 <5 <0.03 <5 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<0.05 <0.03 <1 <1 <1 <5 <0.03 <5 <0.02 <1	<0.05 <0.03 <1 <1 <1 <5 <0.03 <5 <0.03 <45 <0.03 <45 <0.2 <1	<0.05 <0.03 <1 <1 <5	<0.05 <0.03	<0.05 <0.03 <1 <1 <5	<0.05 <0.03 <1 <1 <5	<0.05 <0.03 <1 <1 <5	<0.05 <0.03	<0.05	<0.05 <0.03	< 0.05	<0.05 <0.03 <1 <1 <5
2.4-dichirophenol 2.6-dichirophenol 2.3.4.5 & 2.3.4.6-Tetrachiorophenol 2-chirophenol 2-nitrophenol 2-nitrophenol 2-nitrophenol 4.6-Dinitro-c-yciohexyi phenol 4-chiror-3-methytphenol 4-nitro-phenol Pentachirorophenol	mg/kg	1 5 0.03 0.05 0.03 1 1 5 0.03 5					<0.03 <0.05 <0.03 <1 <1 <5 <0.03 <5 <0.2	<0.03 <0.05 <0.03 <1 <1 <5 <0.03 <5 <0.03	<0.03 <0.05 <0.03 <1 <1 <5	<0.05 <0.03 <1 <1 <1 <5 <0.03 <5 <0.2	<0.05 <0.03 <1 <1 <5 <0.03 <5 <0.2	<0.05 <0.03 <1 <1 <1 <5 <0.03 <5 <0.03	<0.05 <0.03 <1 <1 <1 <5 <0.03 <5 <0.03	<0.05 <0.03 <1 <1 <1 <5 <0.03 <1 <1 <5 <0.03	<0.05 <0.03 <1 <1 <5 <0.03 <5 <0.2	<0.05 <0.03 <1 <1 <1 <5 <0.03 <1 <1 <1 <5 <0.03 <5 <0.03	<0.05 <0.03 <1 <1 <5	<0.05 <0.03 <1 <1 <5	<0.05 <0.03	<0.05	<0.05 <0.03 <1 <1 <5 <0.03 <5 <0.2	< 0.05	<0.05 <0.03 <1 <1 <5 <0.03

Summary of Soil Analytical Results

Lo	cation Code	NEL-BH163	NEL-BH163	NEL-BH163	NEL-BH164	NEL-BH164	NEL-BH165	NEL-BH165	NEL-BH166	NEL-BH166	NEL-BH167	NEL-BH167	NEL-BH172	NEL-BH174	NEL-BH174	NEL-BH177	NEL-BH177	NEL-BH178
De	pth	0.2 - 0.3	0.2 - 0.3	1 - 1.1	0.2 - 0.3	0.5 - 0.6	0.2 - 0.3	0.5 - 0.6	0.5 - 0.6	1.5 - 1.6	0.2 - 0.3	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1 - 1.1	0.2 - 0.3
Da	le	13/06/2018		13/06/2018	13/06/2018	13/06/2018	6/06/2018			3/07/2018	6/07/2018	6/07/2018			5/07/2018		29/06/2018	5/07/2018
Fle	ld ID	NEL-BH163_0.2m	QC1005	NEL-BH163_1.0m	NEL-BH164_0.2m	NEL-BH164_0.5m	NEL-BH165_0.2m	NEL-BH165_0.5m	NEL-BH166_0.5m	NEL-BH166_1.5m	NEL-BH167_0.2m	NEL-BH167_0.5m	NEL-BH172_0.5m	NEL-BH174_0.5m	NEL-BH174_1.5m	NEL-BH177_0.5m	NEL-BH177_1.0m	NEL-BH178_0.2m
Sa	mple Type	Normal	Field_D	Normal														
La	Report Number	EM1809532	EM1809532	EM1809532	EM1809532	EM1809532	EM1809233	EM1809233	EM1810780	EM1810780	EM1810871	EM1810871	EM1810581	EM1810873	EM1810873	EM1810581	EM1810581	EM1810873

| | | | | | | Lab Report Number | EM1809532

 | EM1809532
 | EM1809532 | EM1809532 | EM1809532 | EM1809233 | EM1809233 | EM1810780
 | EM1810780 | EM1810871 | EM1810871 | EM1810581 | EM1810873 | EM1810873 | EM1810581
 | EM1810581 | EM1810873 |
|---|---|--|-------------------|-------------------|-------------------------------------|---
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---|---|--|---|--|--
--|
| | Linit | EQL | EPA Victoria IWRG | EPA Victoria IWRG | EPA Victoria IWRG
621 Clean Fill | EPA Victoria IWRG 621
Trigger for Leachate |

 |
 | | | | | | | |
 | | | | | | |
 | | |
| Incerentes | Unit | EQL | 621 Category B | 621 Category C | 621 Clean Fill | Teeting |

 |
 | 1 | | | 1 | 1 | 1
 | | | | 1 | 1 | | 1
 | | 1 |
| Inorganics
Cyanide (Total) | mg/kg | 1 | 10000 | 2500 | 50 | 160 | <1

 | <1
 | <1 | <1 | <1 | <1 | <1 | <1
 | <1 | <1 | <1 | <1 | <1 | <1 | <1
 | <1 | <1 |
| Major Ions | | | | | | |

 |
 | | | | | | |
 | | | | | | |
 | | |
| Fluoride | mg/kg | 40 | 40000 | 10000 | 450 | 3000 | 360

 | 320
 | 740 | 70 | 200 | 210 | 200 | 920
 | 240 | 220 | 220 | 480 | 390 | 640 | 350
 | 470 | 330 |
| Motals | | | | | | |

 |
 | | | | | | |
 | | | | | | |
 | | |
| Arsenic | mg/kg | 5 | 2000 | 500 | 20 | 14 | 10

 | <5
 | <5 | <5 | <5 | 5 | 5 | 6
 | <5 | 6 | 5 | 7 | 6 | 7 | <5
 | <5 | <5 |
| Cadmium | mg/kg | 1 | | 100 | 3 | 4 | <1

 | <1
 | <1 | <1 | <1 | <1 | <1 | <1
 | <1 | <1 | <1 | <1 | <1 | <1 | <1
 | <1 | <1 |
| Chromium (hexavalent) | mg/kg | 0.5 | 2000 | 500 | 1 | 100 | <0.5

 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 |
| Chromium (III+VI) Copper | mg/kg
mg/kg | 5 | 20000 | 5000 | 100 | 4000 | - 6

 | 5
 | 17 | - | - | | 16 | 11
 | - | 10 | 13 | 24 | 13 | 28 | - 8
 | 12 | 17 |
| Lead | mg/kg
mg/kg | 5 | | 1500 | 300 | 20 | 16

 | 13
 | 24 | 8 | 9 | 14 | 16 | 55
 | 20 | 14 | 12 | 32 | 15 | 21 | 14
 | 14 | 12 |
| Mercury | mg/kg | 0.1 | 300 | 75 | 1 | 2 | 0.2

 | r0.1
 | 0.1 | e0.1 | e0.1 | e0.1 | 0.1 | r0.1
 | z0 1 | <0.1 | r0.1 | r0.1 | <0.1 | e0.1 | r0.1
 | 0.1 | ×0.1 |
| Molybdenum | mg/kg | 2 | | 1000 | 40 | 100 | <2

 | <2
 | <2 | <2 | <2 | <2 | <2 | <2
 | <2 | <2 | <2 | <2 | <2 | <2 | <2
 | <2 | <2 |
| Nickel | mg/kg | 2 | | 3000 | 60 | 40 | 13

 | 9
 | 30 | 3 | 4 | 12 | 35 | 14
 | 16 | 15 | 23 | 43 | 24 | 58 | 14
 | 15 | 41 |
| Selenium | mg/kg | 5 | 200 | 50 | 10 | 20 | <5

 | <5
 | <5 | <5 | <5 | <5 | <5 | <5
 | <5 | <5 | <5 | <5 | <5 | <5 | <5
 | <5 | <5 |
| Silver | mg/kg | 2 | 720 | 180 | 10 | 200 | <2

 | <2
 | <2 | <2 | <2 | <2 | <2 | <2
 | <2 | <2 | <2 | <2 | <2 | <2 | <2
 | <2 | <2 |
| Tin | mg/kg | 5 | | 500 | 50 | | <5

 | <5
 | <5 | <5 | <5 | <5 | <5 | <5
 | <5 | <5 | <5 | <5 | <5 | <5 | <5
 | <5 | <5 |
| Zinc | mg/kg | 5 | 140000 | 35000 | 200 | 6000 | 16

 | 12
 | 54 | 6 | <5 | 12 | 21 | 64
 | 23 | 18 | 20 | 51 | 21 | 66 | 15
 | 14 | 26 |
| BTEXN | | | 16 | 4 | 1 | 2 |

 |
 | | | | <0.2 | | |
 | | | | | | |
 | | |
| Benzene
Toluene | mg/kg | 0.2 | | 4 | - | 2 | <0.2

 | <0.2
<0.5
 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2
 | <0.2
<0.5 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2
 | <0.2 | <0.2 |
| Ethylbenzene | mg/kg
mg/kg | 0.5 | | | | | <0.5

 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 |
| Xylene (o) | mg/kg | 0.5 | | | | | <0.5

 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 |
| Xylene (m & p) | mg/kg | 0.5 | | | | | < 0.5

 | <0.5
 | <0.5 | < 0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | < 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | < 0.5 |
| Xylene Total | mg/kg | 0.5 | | | | | <0.5

 | <0.5
 | < 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 |
| TRH - NEPM 2013 | | | | | | |

 |
 | | | | | | |
 | | | | | | |
 | | |
| F1 (C6-C10 minus BTEXN) | mg/kg | 10 | | | | | <10

 | <10
 | <10 | <10 | <10 | <10 | <10 | <10
 | <10 | <10 | <10 | <10 | <10 | <10 | <10
 | <10 | <10 |
| C6-C10 Fraction | mg/kg | 10 | | | | | <10

 | <10
 | <10 | <10 | <10 | <10 | <10 | <10
 | <10 | <10 | <10 | <10 | <10 | <10 | <10
 | <10 | <10 |
| F2 (>C10-C16 minus Naphthalene)
>C10-C16 Fraction | mg/kg | 50
50 | | | | | <50

 | <50
 | <50 | <50 | <50 | <50 | <50 | <50
 | <50 | <50 | <50 | <50 | <50 | <50 | <50
 | <50 | <50 |
| F3 (>C16-C34 Fraction) | mg/kg | 100 | | | | | <50

 | <50
 | <50 | <50 | <50 | <50 | <50 | <50
 | <50 | <50 | <50 | <50 | <50 | <50 | <50
 | <50 | <50 |
| F4 (>C34-C40 Fraction) | mg/kg
mg/kg | 100 | | | | | <100

 | <100
 | <100 | <100 | <100 | <100 | <100 | <100
 | <100 | <100 | <100 | <100 | <100 | <100 | <100
 | <100 | <100 |
| >C10-C40 (Sum of Total) | mg/kg | 50 | | | | | <50

 | <50
 | <50 | <50 | <50 | <50 | <50 | <50
 | <50 | <50 | <50 | <50 | <50 | <50 | <50
 | <50 | <50 |
| TRH - NEPM 1999 | Illiging | - 50 | | | | | -00

 | -50
 | -00 | -50 | -50 | -50 | -50 | -50
 | -00 | -50 | -50 | -50 | -50 | -50 | -50
 | -50 | -50 |
| C6-C9 Fraction | mg/kg | 10 | 2600 | 650 | 100 | | <10

 | <10
 | <10 | <10 | <10 | <10 | <10 | <10
 | <10 | <10 | <10 | <10 | <10 | <10 | <10
 | <10 | <10 |
| C10-C14 Fraction | mg/kg | 50 | | | | | <50

 | <50
 | <50 | <50 | <50 | <50 | <50 | <50
 | <50 | <50 | <50 | <50 | <50 | <50 | <50
 | <50 | <50 |
| C15-C28 Fraction | mg/kg | 100 | | | | | <100

 | <100
 | <100 | <100 | <100 | <100 | <100 | <100
 | <100 | <100 | <100 | <100 | <100 | <100 | <100
 | <100 | <100 |
| C29-C36 Fraction | mg/kg | 100 | | | | | <100

 | <100
 | <100 | <100 | <100 | <100 | <100 | <100
 | <100 | <100 | <100 | <100 | <100 | <100 | <100
 | <100 | <100 |
| C10-C36 (Sum of Total) | mg/kg | 50 | 40000 | 10000 | 1000 | | <50

 | <50
 | <50 | <50 | <50 | <50 | <50 | <50
 | <50 | <50 | <50 | <50 | <50 | <50 | <50
 | <50 | <50 |
| PAHs Sum of polycyclic aromatic hydrocarbons | mg/kg | 0.5 | | | | | <0.5

 | <0.5
 | <0.5 | <0.5 | ×0.6 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | ×0.5 | <0.5
 | <0.5 | <0.5 |
| Pyrene | mg/kg | 0.5 | | | | | <0.5

 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 |
| Acenaphthene | mg/kg | 0.5 | | | | | < 0.5

 | < 0.5
 | < 0.5 | < 0.5 | < 0.5 | <0.5 | < 0.5 | <0.5
 | <0.5 | < 0.5 | < 0.5 | < 0.5 | <0.5 | < 0.5 | <0.5
 | < 0.5 | < 0.5 |
| Acenaphthylene | mg/kg | 0.5 | | | | | < 0.5

 | <0.5
 | < 0.5 | <0.5 | < 0.5 | < 0.5 | <0.5 | <0.5
 | < 0.5 | < 0.5 | <0.5 | < 0.5 | <0.5 | < 0.5 | <0.5
 | < 0.5 | < 0.5 |
| Anthracene | mg/kg | 0.5 | | | | | < 0.5

 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 | <0.5 | < 0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 |
| Benz(a)anthracene | mg/kg | 0.5 | | | | | <0.5

 | <0.5
 | <0.5 | <0.5 | < 0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 | < 0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 |
| Benzo(a) pyrene
Benzo(b+j+k)fluoranthene | mg/kg | 0.5 | | 5 | 1 | 0.02 | < 0.5

 | < 0.5
 | < 0.5 | <0.5 | <0.5 | <0.5 | <0.5
<0.5 | < 0.5
 | <0.5
<0.5 | <0.5 | <0.5 | < 0.5 | <0.5 | <0.5 | < 0.5
 | < 0.5 | <0.5
<0.5 |
| Benzo(g,h,i)perylene | mg/kg
mg/kg | 0.5 | | | | | <0.5

 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 | <0.5
<0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 |
| Chrysene | mg/kg | 0.5 | | | | | ×0.5

 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 |
| Dibenz(a,h)anthracene | mg/kg | 0.5 | | | | | <0.5

 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 |
| Fluoranthene | mg/kg | 0.5 | | | | | < 0.5

 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | < 0.5 | <0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5
 | < 0.5 | <0.5 |
| Fluorene | mg/kg | 0.5 | | | | | < 0.5

 | < 0.5
 | < 0.5 | <0.5 | <0.5 | < 0.5 | <0.5 | <0.5
 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | <0.5 | < 0.5 | < 0.5
 | < 0.5 | < 0.5 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.5 | | | | | <0.5

 | <0.5
 | <0.5 | < 0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 |
| Naphthalene | mg/kg | 0.5 | | | | | <0.5

 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | < 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 |
| Phenanthrene
PAHs (Sum of total) - Lab calc | mg/kg
mg/kg | 0.5 | 400 | 100 | 20 | | <0.5

 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <u.5< td=""><td><0.5</td><td><0.5</td></u.5<>
 | <0.5 | <0.5 |
| Total 8 PAHs (as BaP TEQ)(zero LOR) - La | | 0.5 | | 100 | 20 | | <0.5

 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5
 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | r0.5 | ×0.5
 | <0.5 | <0.5 |
| Total 8 PAHs (as BaP TEQ)(balf LOR) - Lab | | 0.5 | | | | | 0.6

 | 0.6
 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6
 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6
 | 0.6 | 0.6 |
| Total 8 PAHs (as BaP TEQ)(full LOR) - Lab | b Cald mg/kg | 0.5 | | | | | 1.2

 | 1.2
 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2
 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2
 | 1.2 | 1.2 |
| Phenois | | | | | | |

 |
 | | | | | | |
 | | | | | | 1 |
 | | |
| Phenois(halogenated) - Lab Calc | mg/kg | 0.03 | | | | 40 | < 0.03

 | < 0.03
 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03
 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03
 | < 0.03 | < 0.03 |
| 3/4-Methylphenol (m/p-cresol) | mg/kg | - 1 | | | | | <1

 | <1
 | <1 | <1 | <1 | <1 | <1 | <1
 | <1 | <1 | <1 | <1 | <1 | <1 | <1
 | <1 | <1 |
| Phenois (non-halogenated) - Lab Calc | mg/kg | - 1 | | | | 280 | <1

 | <1
 | <1 | <1 | <1 | <1 | <1 | <1
 | <1 | <1 | <1 | <1 | <1 | <1 | <1
 | <1 | <1 |
| 2,3,5,6-Tetrachlorophenol | mg/kg | 0.03 | | | | | < 0.03

 | < 0.03
 | < 0.03 | < 0.03 | < 0.03 | <0.03 | < 0.03 | < 0.03
 | < 0.03 | < 0.03 | <0.03 | < 0.03 | < 0.03 | <0.03 | < 0.03
 | <0.03 | <0.03 |
| 2,4,5-trichlorophenol | | | | | | | <0.05

 | < 0.05
 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | <0.05 | <0.05
 | < 0.05 | < 0.05 | <0.05 | < 0.05 | <0.05 | < 0.05 | < 0.05
 | < 0.05 | < 0.05 |
| | mg/kg | 0.05 | | | | |

 |
 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05
 | < 0.05 | < 0.05 | < 0.05 | | | |
 | < 0.05 | < 0.05 |
| 2,4,6-trichlorophenol | mg/kg | 0.05 | | | | | <0.05

 | <0.05
 | | | | | |
 | | | | <0.05 | <0.05 | <0.05 | <0.05
 | | |
| 2,4-dichlorophenol | mg/kg
mg/kg | 0.05 | | | | | <0.05
<0.03

 | <0.05
 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03
 | <0.03 | <0.03 | <0.03 | <0.05
<0.03 | <0.05 | <0.05
<0.03 | <0.03
 | <0.03 | <0.03 |
| 2,4-dichlorophenol
2,4-dimethylphenol | mg/kg
mg/kg
mg/kg | 0.05
0.03 | | | | | <0.03

 | <0.03
<1
 | <0.03 | <0.03 | <0.03 | <0.03 | <1 | <0.03
 | <1 | <1 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03
 | <0.03 | <0.03 |
| 2,4-dichlorophenol
2,4-dimethylphenol
2,4-dinitrophenol | mg/kg
mg/kg
mg/kg
mg/kg | 0.05
0.03
1
5 | | | | | <0.03
<1
<5

 | <0.03
<1
<5
 | <0.03
<1
<5 | <0.03
<1
<5 | <0.03
<1
<5 | <1
<5 | <1
<5 | <1
<5
 | <1
<5 | <1
<5 | <0.03
<1
<5 | <0.03
<1
<5 | <0.03
<1
<5 | <0.03
<1
<5 | <0.03
<1
<5
 | <0.03
<1
<5 | <0.03
<1
<5 |
| 2,4-dichlorophenol
2,4-dimethylphenol
2,4-dinitrophenol
2,6-dichlorophenol | mg/kg
mg/kg
mg/kg
mg/kg
mg/kg | 0.05
0.03
1
5
0.03 | | | | | <0.03
<1
<5
<0.03

 | <0.03
<1
<5
<0.03
 | <0.03
<1
<5
<0.03 | <0.03
<1
<5
<0.03 | <0.03
<1
<5
<0.03 | <1
<5
<0.03 | <1
<5
<0.03 | <1
<5
<0.03
 | <1
<5
<0.03 | <1
<5
<0.03 | <0.03
<1
<5
<0.03 | <0.03
<1
<5
<0.03 | <0.03
<1
<5
<0.03 | <0.03
<1
<5
<0.03 | <0.03
<1
<5
<0.03
 | <0.03
<1
<5
<0.03 | <0.03
<1
<5
<0.03 |
| 2,4-dichlorophenol 2,4-dimethylphenol 2,4-dimitrophenol 2,6-dichlorophenol 2,3,4,5 & 2,3,4,6-Tetrachlorophenol | mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg | 0.05
0.03
1
5
0.03
0.05 | | | | | <0.03
<1
<5
<0.03
<0.05

 | <0.03
<1
<5
<0.03
<0.05
 | <0.03
<1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05 | <1
<5
<0.03
<0.05 | <1
<5
<0.03
<0.05 | <1
<5
<0.03
<0.05
 | <1
<5
<0.03
<0.05 | <1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05
 | <0.03
<1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05 |
| 2,4-dichlorophenol 2,4-dinitrophenol 2,4-dinitrophenol 2,6-dichlorophenol 2,3,4,5 & 2,3,4,6-Tetrachlorophenol 2-chlorophenol | mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | 0.05
0.03
1
5
0.03
0.05 | | | | | <0.03
<1
<5
<0.03

 | <0.03
<1
<5
<0.03
 | <0.03
<1
<5
<0.03 | <0.03
<1
<5
<0.03 | <0.03
<1
<5
<0.03 | <1
<5
<0.03 | <1
<5
<0.03 | <1
<5
<0.03
 | <1
<5
<0.03 | <1
<5
<0.03 | <0.03
<1
<5
<0.03 | <0.03
<1
<5
<0.03 | <0.03
<1
<5
<0.03 | <0.03
<1
<5
<0.03 | <0.03
<1
<5
<0.03
 | <0.03
<1
<5
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 |
| 2,4-dichlorophenol 2,4-dimethylphenol 2,4-dimethylphenol 2,6-dichlorophenol 2,3,4,5 & 2,3,4,6-Tetrachlorophenol 2-chlorophenol 2-chlorophenol | mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg | 0.05
0.03
1
5
0.03
0.05
0.03 | | | | | <0.03
<1
<5
<0.03
<0.05
<0.03

 | <0.03
<1
<5
<0.03
<0.05
<0.03
 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03
<1 | <1
<5
<0.03
<0.05
<0.03 | <1
<5
<0.03
<0.05 | <1
<5
<0.03
<0.05
<0.03
<1
 | <1
<5
<0.03
<0.05
<0.03
<1 | <1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03
 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 |
| 2.4-dischbrophenol 2.4-dimitrophenol 2.4-dimitrophenol 2.6-dischbrophenol 2.5-dischbrophenol 2.5-dischbrophenol 2-chlorophenol 2-chlorophenol 2-methylphenol | mg/kg | 0.05
0.03
1
5
0.03
0.05
0.03 | | | | | <0.03
<1
<5
<0.03
<0.05

 | <0.03
<1
<5
<0.03
<0.05
 | <0.03
<1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05 | <1
<5
<0.03
<0.05 | <1
<5
<0.03
<0.05 | <1
<5
<0.03
<0.05
 | <1
<5
<0.03
<0.05 | <1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05
 | <0.03
<1
<5
<0.03
<0.05 | <0.03
<1
<5
<0.03
<0.05
<0.03
<1
<1 |
| 2.4-dischbarophenol 2.4-disnitryhenol 2.4-disnitryhenol 2.9-dischbarophenol 2.3,4.5 a 2,3.4.6 Tetrachlorophenol 2-chiorophenol 2-mitryphenol 2-mitryphenol 2-mitryphenol | mg/kg | 0.05
0.03
1
5
0.03
0.05
0.03
1
1
5 | | | | | <0.03
<1
<5
<0.03
<0.05
<0.03

 | <0.03
<1
<5
<0.03
<0.05
<0.03
 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03
<1 | <1
<5
<0.03
<0.05
<0.03 | <1
<5
<0.03
<0.05 | <1
<5
<0.03
<0.05
<0.03
<1
 | <1
<5
<0.03
<0.05
<0.03
<1 | <1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03
 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 |
| 2.4-dischlorophenol 2.4-dimitrophenol 2.6-dischlorophenol 2.3.4.5 a 2.3.4.6 Terachlorophenol 2.4.bishrophenol 2-chlorophenol 2-mitrophenol 2-mitrophenol | mg/kg | 0.05
0.03
1
5
0.03
0.05
0.03
1
1
5 | | | | | <0.03
<1
<5
<0.03
<0.05
<0.03

 | <0.03
<1
<5
<0.03
<0.05
<0.03
 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03
<1 | <1
<5
<0.03
<0.05
<0.03 | <1
<5
<0.03
<0.05 | <1
<5
<0.03
<0.05
<0.03
<1
 | <1
<5
<0.03
<0.05
<0.03
<1 | <1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03
 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03
<1
<1 |
| 2.4-directiverophenol 2.4-dimethyliphenol 2.4-dimethyliphenol 2.6-dichiorophenol 2.5-dichiorophenol 2-choorophenol 2-choorophenol 2-dimethyliphenol 2-dimethyliphenol 4.6-Dimito-o-cycloharyl phenol 4.6-Dimito-o-gridhenol | mg/kg | 0.05
0.03
1
5
0.03
0.05
0.03
1
1
5 | | | | | <0.03
<1
<5
<0.03
<0.05
<0.03
<1
<1
<5
<0.03

 | <0.03 <1 <5 <0.03 <0.03 <0.05 <0.03 <1 <1 <1 <5 <0.03
 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
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<5
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<1 | <1
<5
<0.03
<0.05
<0.03 | <1
<5
<0.03
<0.05 | <1
<5
<0.03
<0.05
<0.03
<1
 | <1
<5
<0.03
<0.05
<0.03
<1 | <1
<5
<0.03
<0.05
<0.03 | <0.03
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<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03 | <0.03
<1
<5
<0.03
<0.05
<0.03
 | <0.03
<1
<5
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<0.03 | <0.03 <1 <5 <0.03 <0.05 <0.03 <1 <1 <1 <5 <0.03 <<1 <1 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 | <0.03 <1 <5 <0.03 <0.03 <0.05 <0.03 <1 <1 <1 <5 <0.03 <5 <0.03 <5 <1 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <0.03 <5 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0. | <0.03 <1 <5 <0.03 <10.05 <0.05 <0.03 <1 <1 <1 <5 <0.03 <1 <1 <5 <0.03 <1 <1 <5 <0.03 <5 <0.03 <5 <0.03 |



Summary of Soil Analytical Results

Location Code	NEL-BH178	NEL-BH179	NEL-BH179	NEL-BH179	NEL-BH180	NEL-BH180	NEL-BH181	NEL-BH181	NEL-BH182	NEL-BH182	NEL-BH184	NEL-BH184	NEL-BH184	NEL-BH185	NEL-BH185	NEL-BH186	NEL-BH187	NEL-BH187
Depth	1 - 1.1	0.1 - 0.2	1.5 - 1.6	1.5 - 1.6	0.1 - 0.2	1 - 1.1	0.2 - 0.3	1 - 1.1	0.2 - 0.3	1 - 1.1	0.2 - 0.3	0.5 - 0.6	1 - 1.1	0.2 - 0.3	0.9 - 1	0.2 - 0.3	0.2 - 0.3	0.5 - 0.6
Date	5/07/2018	9/04/2018	9/04/2018	9/04/2018	17/05/2018	17/05/2018	16/04/2018	16/04/2018	16/04/2018	16/04/2018	10/07/2018	9/08/2018	9/08/2018	1/06/2018	1/06/2018	1/06/2018	7/05/2018	7/05/2018
Field ID	NEL-BH178_1.0m	NEL-BH179_0.1m	NEL-BH179_1.5m	QC1002	NEL-BH180_0.1m	NEL-BH180_1.0m	NEL-BH181-0.2m	NEL-BH181-1.0m	NEL-BH182-0.2m	NEL-BH182-1.0m	NEL-BH184_0.2m	NEL-BH184_0.5	NEL-BH184_1.0	NEL-BH185_0.2m	NEL-BH185_0.9m	NEL-BH186_0.2m	NEL-BH187_0.2m	NEL-BH187_0.5m
Sample Type	Normal	Normal	Normal	Field_D	Normal Normal	Normal	Normal	Normal	Normal	Normal								
Lab Report Number	EM1810873	EM1805929	EM1805929	EM1805929	EM1808218	EM1808218	EM1806356	EM1806356	EM1806356	EM1806356	EM1811072	EM1812809	EM1812809	EM1809091	EM1809091	EM1809091	EM1807474	EM1807474

	_	_				Lab Report Number	EW 10 10073	EWI1000325	EM1805929	EWI1003929	EM1808218	EM1808218	EM1806356	EM1806356	EM1806356	EM1806356	EM1811072	EW1012005	EM1812809	EM 1003031	EM1809091	EM1809091	EM1807474	EM1807474
						EPA Victoria IWRG 621																		
			EPA Victoria IWRG	EPA Victoria IWRG	EPA Victoria IWRG	Trigger for Leachate																		
	Unit				621 Clean Fill	Testing																		
Inorganics Cyanide (Total)																								
Cyanide (Total)	mg/kg	1	10000	2500	50	160	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	1	1	<1
Major lons	mg/kg	40	40000	10000	450	3000	470	480	370	390	220	320	340	250	280	250	250	390	530	200	200	500	520	700
Fluoride Metala	mg/kg	40	40000	10000	450	3000	470	400	370	390	220	320	340	250	200	250	250	390	530	200	200	500	520	700
Arsenic	mg/kg	5	2000	500	20	14	<5	6	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	<5	<5	7	7	6	6
Cadmium	mg/kg	1	400	100	3	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium (hexavalent)	mg/kg	0.5	2000	500	1	100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	0.6	<0.5	< 0.5	<0.5
Chromium (III+VI)	mg/kg	2					-	-	-	-	-	-	-	-	-	-					-	-	-	-
Copper	mg/kg	5	20000 6000	5000 1500	100	4000	11	14	13	11	10	9	26	9	13	10	29	15	20	6	13	18	11	12
Lead Mercury	mg/kg	5	300	1500	300	20	16	25	10	9	12	11	137	10	14	9	9	14	13	16	13	14	12	13
Molybdenum	mg/kg	0.1	4000	1000	40	100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg mg/kg	2	12000	3000	60	40	24	22	13	11	14	16	35	16	28	17	67	28	45	9	53	27	33	33
Selenium	mg/kg	5	200	50	10	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Silver	mg/kg	2	720	180	10	200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tin	mg/kg	5		500	50		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Zinc	mg/kg	5	140000	35000	200	6000	12	44	17	14	39	30	92	36	37	29	42	34	46	35	93	27	30	35
BTEXN			16		1																			
Benzene Toluene	mg/kg	0.2	16	4	1	2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
Xylene (o)	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene (m & p)	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5
Xylene Total	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH - NEPM 2013																								
F1 (C6-C10 minus BTEXN)	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C6-C10 Fraction	mg/kg	10					<10 <50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (>C10-C16 minus Naphthalene) >C10-C16 Fraction	mg/kg	50 50					<50 <50	70 70	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
F3 (>C16-C34 Fraction)	mg/kg mg/kg	100					<100	270	<100	<50	<100	<100	<100	<100	<100	<100	<100	<100	<100	130	<100	<100	<100	<50
F4 (>C34-C40 Fraction)	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of Total)	mg/kg	50					<50	340	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	130	<50	<50	<50	<50
TRH - NEPM 1999																								
C6-C9 Fraction	mg/kg	10	2600	650	100		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C10-C14 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15-C28 Fraction C29-C36 Fraction	mg/kg	100					<100	200 160	<100	<100	<100	<100	<100	<100 <100	<100 <100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C10-C36 (Sum of Total)	mg/kg mg/kg	50	40000	10000	1000		<100	360	<100	<100	<100 <50	<100	<100 <50	<100	<100 <50	<100	<100	<100	<100 <50	<100	<100	<100 <50	<100	<100 <50
PAHs	IIIging	30	40000	10000	1000		V30	300	~30	-30	-00	-50	-00	V30	V30	-30	-50	-30	V30	-50	-50	-50	-50	
Sum of polycyclic aromatic hydrocarbons	mg/kg	0.5					< 0.5		-	-	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5
Pyrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	mg/kg	0.5					< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5
Acenaphthylene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene Benz(a)anthracene	mg/kg	0.5					<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
	mg/kg mg/kg	0.5	20	5	- 1	0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a) pyrene Benzo(b+j+k)fluoranthene	mg/kg	0.5		-			< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	0.6	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5					< 0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5
Chrysene	mg/kg	0.5					< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5
Dibenz(a,h)anthracene	mg/kg	0.5					< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5
Fluorene Indeno(1,2,3-c,d)pyrene	mg/kg	0.5					< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total) - Lab calc	mg/kg	0.5	400	100	20			<0.5	< 0.5	<0.5	-	-	0.6	< 0.5	<0.5	< 0.5	-			-	-	-	-	
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab	Camg/kg	0.5					< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(half LOR) - Lab 0	Cal mg/kg	0.5					0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab C	ald mg/kg	0.5					1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Phenois																								
Phenois(halogenated) - Lab Calc 3/4-Methylphenol (m/p-cresol)	mg/kg	0.03				40	<0.03	-	-	-	<0.03	<0.03	<1	<1	<1	<1	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03
Phenois (non-halogenated) - Lab Calc	mg/kg mg/kg	1				280	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2.3.5.6-Tetrachlorophenol	mg/kg mg/kg	0.03				200	<0.03	rn.n3	<0.03	×0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
2,4,5-trichlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4,6-trichlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4-dichlorophenol	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
2,4-dimethylphenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-dinitrophenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2,6-dichlorophenol	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	mg/kg	0.05					< 0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05
2-chlorophenol	mg/kg	0.03					< 0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03
2-methylphenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-nitrophenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4,6-Dinitro-o-cyclohexyl phenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-chloro-3-methylphenol 4-nitrophenol	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
4-nitrophenol Pentachlorophenol	mg/kg mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenois (Total Halogenated)	mg/kg	0.03					-	< 0.03	< 0.03	< 0.03		-	< 0.03	< 0.03	< 0.03	< 0.03					1	-	-	
Phenois (Total Non Halogenated)	mg/kg	1					-	<1	<1	<1	-	-	<1	<1	<1	<1	-	-	-	-	-	-	-	-
					•						•	-	-	-	•	•		_		-	•		_	



Summary of Soil Analytical Results

Location Code	NEL-BH188	NEL-BH188	NEL-BH190	NEL-BH190	NEL-BH191	NEL-BH191	NEL-BH191	NEL-BH192	NEL-BH192	NEL-BH194	NEL-BH194	NEL-BH195	NEL-BH195	NEL-BH200	NEL-BH200	NEL-BH201	NEL-BH201	NEL-BH202
Depth	0.2 - 0.3	1 - 1.1	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1 - 1.1	1 - 1.1	0.2 - 0.6	1 - 1.1	0.2 - 0.3	1 - 1.1	0.5 - 0.6	1 - 1.1	0.5 - 0.6	1 - 1.1	0.5 - 0.6	1 - 1.1	0.2 - 0.3
Date	7/05/2018	7/05/2018	16/07/2018	16/07/2018	12/05/2018	12/05/2018	12/05/2018	18/07/2018	18/07/2018	24/05/2018	24/05/2018	10/07/2018	10/07/2018	20/06/2018	20/06/2018	22/06/2018	22/06/2018	25/06/2018
Field ID	NEL-BH188_0.2m	NEL-BH188_1.0m	NELBH190_0.5	NELBH190_1.5	NEL-BH191_0.5m	NEL-BH191_1.0m	QC1003	NEL-BH192_0.2	NEL-BH192_1.0	NEL-BH194_0.2r	NEL-BH194_1.0m	NEL-BH195_0.5m	NEL-BH195_1.0m	NEL-BH200_I	NEL-BH200_1.0m	NEL-BH201_0.5m	NEL-BH201_1.0m	NEL-BH202_0.2m
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Lab Report Number	EM1807474	EM1807474	EM1811371	EM1811371	EM1808252	EM1808252	EM1808252	EM1811453	EM1811453	EM1808553	EM1808553	EM1811072	EM1811072	EM1809961	EM1809961	EM1810220	EM1810220	EM1810219

						Lab Report Number	EM1807474	EM1807474	EM1811371	EM1811371	EM1808252	EM1808252	EM1808252	EM1811453	EM1811453	EM1808553	EM1808553	EM1811072	EM1811072	EM1809961	EM1809961	EM1810220	EM1810220	EM1810219
						EPA Victoria IWRG 621																		
	Unit				EPA Victoria IWRG 621 Clean Fili																			
Inorganics	Unit	EQL	21 Category B	621 Category C	621 Clean Fill	Teeting		1	1							1	1					1	1	1
Cyanide (Total)	mg/kg	- 1	10000	2500	50	160	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Major Iona																								
Fluoride Metals	mg/kg	40	40000	10000	450	3000	120	380	320	350	260	460	420	400	580	300	460	390	420	200	180	360	230	120
Arsenic	mg/kg	5	2000	500	20	14	<5	<5	<5	<5	<5	5	7	<5	<5	<5	<5	9	<5	<5	6	6	<5	<5
Cadmium	mg/kg	1	400	100	3	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium (hexavalent)	mg/kg	0.5	2000	500	1	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5
Chromium (III+VI)	mg/kg	2					-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-
Copper	mg/kg mg/kg	5	20000 6000	5000 1500	100 300	4000 20	5 6	13	12	14	18	24	22 16	24 24	23	13 29	25 12	26 52	30 28	10 22	27	13	31 24	11
Mercury	mg/kg	0.1	300	75	1	20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	2	4000	1000	40	100	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Nickel	mg/kg	2	12000	3000	60	40	4	4	13	30	40	61	54	42	48	25	58	24	19	19	8	20	24	26
Selenium Silver	mg/kg	5 2	200 720	50 180	10	20	<5	<5	<5	<5	<5	<5	<5 <2	<5	<5	<5	<5 e2	<5	<5	<5	<5	<5	<5	<5 e2
Tin	mg/kg mg/kg	5	720	500	50	200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc	mg/kg	5	140000	35000	200	6000	11	6	12	31	30	56	46	71	82	42	113	104	101	41	13	24	45	33
BTEXN																								
Benzene	mg/kg	0.2	16	4	1	2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2
Toluene Ethylbenzene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5
Ethylbenzene Xylene (o)	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene (m & p)	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5
Xylene Total	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5
TRH - NEPM 2013 F1 (C6-C10 minus RTEXN)		10					-10	*40	-40	-4-		-17	-40	-10	-40	-40	-40	-45	-4-	-10	-40	-10	-10	-40
F1 (C6-C10 minus BTEXN) C6-C10 Fraction	mg/kg mg/kg	10					<10	<10	<10	<10	<10 <10	<10 <10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (>C10-C16 minus Naphthalene)	mg/kg	50					<50	<50	<50	<50 <50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C16 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
F3 (>C16-C34 Fraction)	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	140	<100	<100	<100	<100	240
F4 (>C34-C40 Fraction) >C10-C40 (Sum of Total)	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100 <50	<100	<100	<100	<100 140	<100 <50	<100	<100 <50	<100	180
TRH - NEPM 1999	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	140	<50	<50	<50	<50	420
C6-C9 Fraction	mg/kg	10	2600	650	100		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C10-C14 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15-C28 Fraction	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29-C36 Fraction C10-C36 (Sum of Total)	mg/kg mg/kg	50	40000	10000	1000		<100 <50	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	240 240
PAHs	mg ng	30	40000	10000	1000		V30	450	-50	~50	~00	~50		~50		-50	-00			-50	-50		-00	240
Sum of polycyclic aromatic hydrocarbons	mg/kg	0.5					<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	8.4	<0.5	< 0.5	<0.5	< 0.5	3.3
Pyrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene Acenaphthylene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5
Anthracene	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5					< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	0.7	<0.5	< 0.5	<0.5	< 0.5	< 0.5
Benzo(a) pyrene Benzo(b+j+k)fluoranthene	mg/kg	0.5	20	5	1	0.02	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	0.7
Benzo(b+j+k)fluoranthene	mg/kg	0.5					<0.5 <0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	1.7	<0.5	< 0.5	<0.5	< 0.5	1.0
Benzo(g,h,i)perylene Chrysene	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	1.3	<0.5	< 0.5	<0.5	<0.5	<0.5
Fluorene Indeno(1,2,3-c,d)pyrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total) - Lab calc	mg/kg	0.5	400	100	20		-	-	-	-	-			-	-	-	-	-	-	-	-	-	-	-
Total 8 PAHs (as BaP TEQ)(zero LOR) - L		0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	1.4	< 0.5	< 0.5	< 0.5	<0.5	<1.4**
Total 8 PAHs (as BaP TEQ)(half LOR) - La Total 8 PAHs (as BaP TEQ)(full LOR) - La	ab Call mg/kg	0.5					0.6 1.2	0.6 1.2	0.6 1.2	0.6 1.2	0.6 1.2	0.6 1.2	0.6 1.2	0.6 1.2	0.6 1.2	0.6 1.2	0.6 1.2	0.6 1.2	1.7	0.6 1.2	0.6 1.2	0.6 1.2	0.6 1.2	<1.4*4
Phenois	au Calqmg/kg	0.5					1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.9	1.2	1.2	1.2	1.2	1.4
Phenois(halogenated) - Lab Calc	mg/kg	0.03				40	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.07 ⁸⁴
3/4-Methylphenol (m/p-cresol)	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenols (non-halogenated) - Lab Calc	mg/kg	1				280	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 <0.07 ⁸⁴
2,3,5,6-Tetrachlorophenol	mg/kg	0.03					<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	
2,4,5-trichlorophenol 2,4,6-trichlorophenol	mg/kg mg/kg	0.05					<0.05 <0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 <0.05	<0.05	<0.05	<0.05	<0.05	<0.07 ⁸⁴
2,4,6-trichlorophenol 2,4-dichlorophenol	mg/kg mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.07**
2,4-dimethylphenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
							<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<6*4
2,4-dinitrophenol	mg/kg	5					< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.07 ⁸⁴
2,6-dichlorophenol	mg/kg mg/kg	0.03												< 0.05	< 0.05	< 0.05	< 0.05							<0.14*4
2,6-dichlorophenol 2,3,4,5 & 2,3,4,6-Tetrachlorophenol	mg/kg mg/kg mg/kg	0.03					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
2,6-dichlorophenol 2,3,4,5 & 2,3,4,6-Tetrachlorophenol 2-chlorophenol	mg/kg mg/kg mg/kg mg/kg	0.03 0.05 0.03					<0.05 <0.03	<0.05 <0.03	<0.05	<0.05 <0.03	<0.05	<0.05	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.05	<0.05 <0.03	<0.05	<0.05	<0.05	<0.05 <0.03	<0.07*4
2,6-dichlorophenol 2,3,4,5 & 2,3,4,6-Tetrachlorophenol 2-chlorophenol 2-methylphenol	mg/kg mg/kg mg/kg mg/kg mg/kg	0.03 0.05 0.03					<0.03 <1	<0.03	<0.03 <1	<0.03 <1		<0.03	<0.03	<0.03	<0.03 <1	<1	<0.03		<0.03 <1	<0.05 <0.03 <1	<0.03 <1	<0.03		<0.07 ⁸⁴ <1
2,6-dichlorophenol 2,3,4,5 & 2,3,4,6-Tetrachlorophenol 2-chlorophenol	mg/kg mg/kg mg/kg mg/kg	0.03 0.05 0.03													<0.03 <1 <1 <5	<0.03 <1 <1 <5				<0.05 <0.03 <1 <1 <5				<0.07*4
2.6-dichlorophenol 2.3.4.5 & 2.3.4.6-Tetrachlorophenol 2-chlorophenol 2-methylphenol 2-nitrophenol 4.6-Dinitro-o-cyclohexyl phenol 4-chloro-3-methylphenol	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.03 0.05 0.03 1 1 5 0.03					<0.03 <1 <1 <1 <5 <0.03	<0.03	<0.03 <1	<0.03 <1		<0.03 <1 <1	<0.03 <1 <1	<0.03	<0.03 <1 <1 <1 <5 <0.03	<1 <1	<0.03		<0.03 <1	<0.05 <0.03 <1 <1 <5 <0.03	<0.03 <1	<0.03		<0.07 ⁸⁴ <1 <1
2,6-dichlorophenol 2,3,4,5,6,2,3,4,6-Tetrachlorophenol 2-methylphenol 2-methylphenol 4-mitophenol 4-f-Dinitro-o-cyclohexyl phenol 4-chloro-3-methylphenol 4-rhitophenol	mg/kg	0.03 0.05 0.03 1 1 5 0.03					<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<1 <1 <5 <0.03 <5	<1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03	<0.03 <1 <1 <5 <0.03	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.07 ⁸⁴ <1 <1 <1 <5 <0.07 ⁸⁴ <5
2.6. dichlorophenol 2.3.4.5 & 2.3.4.6 Tetrachlorophenol 2chlorophenol 2-methylphenol 2-methylphenol 4.6. Dintro-o-cyclohexyl phenol 4.6. Dintro-o-cyclohexyl phenol 4-ribroy-a-methylphenol 4-mitrophenol 4-mitrophenol	mg/kg	0.03 0.05 0.03 1 1 5 0.03 5					<0.03 <1 <1 <1 <5 <0.03	<0.03 <1 <1 <1 <5 <0.03	<0.03 <1 <1 <5 <0.03	<0.03 <1		<0.03 <1 <1	<0.03 <1 <1 <5 <0.03	<0.03 <1 <1 <1 <5 <0.03	<0.03 <1 <1 <5 <0.03 <5 <0.2	<1 <1 <5 <0.03	<0.03 <1 <1 <1 <5 <0.03		<0.03 <1	<0.05 <0.03 <1 <1 <5 <0.03 <5 <0.03	<0.03 <1 <1 <5 <0.03	<0.03 <1 <1 <5 <0.03		<0.07 ⁶⁴ <1 <1 <5 <0.07 ⁶⁶ <5 <0.07 ⁶⁶ <5 <0.2
2,6-dichlorophenol 2,3,4,5,6,2,3,4,6-Tetrachlorophenol 2-chlorophenol 2-methylphenol 2-mitrophenol 4,6-Dinitro-o-cyclohexyl phenol 4-chloro-3-methylphenol 4-rhitrophenol	mg/kg	0.03 0.05 0.03 1 1 5 0.03					<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<1 <1 <5 <0.03 <5	<1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03	<0.03 <1 <1 <5 <0.03	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.03 <1 <1 <5 <0.03 <5	<0.07 ⁸⁴ <1 <1 <1 <5 <0.07 ⁸⁴ <5



Summary of Soil Analytical Results

Location Code	NEL-BH202	NEL-BH202	NEL-BH203	NEL-BH203	NEL-BH204	NEL-BH204	NEL-BH217	NEL-BH217	NEL-BH221	NEL-BH221	NEL-BH221	NEL-BH223	NEL-BH223	NEL-BH224	NEL-BH224	NEL-BH225
Depth	0.2 - 0.3	1 - 1.1	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1 - 1.1	0.5 - 0.5	1 - 1	3 - 3	0.2 - 0.3	0.5 - 0.6	0.2 - 0.3	0.5 - 0.6	0.2 - 0.3
Date	25/06/2018	25/06/2018	18/06/2018	18/06/2018	18/06/2018	18/06/2018	9/08/2018	9/08/2018	11/09/2018	11/09/2018	11/09/2018	13/06/2018	13/06/2018	13/06/2018	13/06/2018	6/07/2018
Field ID	QC1006	NEL-BH202_1.0m	NEL-BH203_0.5m	NEL-BH203_1.5m	NEL-BH204_0.5m	NEL-BH204_1.5m	NEL-BH217_0.5	NEL-BH217_1.0	NEL-BH221_0.5	NEL-BH221_1.0	NEL-BH221_3.0	NEL-BH223_0.2m	NEL-BH223_0.5m	NEL-BH224_0.2m	NEL-BH224_0.5r	NEL-BH225_0.2m
Sample Type	Field_D	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Lab Report Number	EM1810219	EM1810219	EM1809816	EM1809816	EM1809816	EM1809816	EM1812809	EM1812809	EM1814744	EM1814744	EM1814744	EM1809532	EM1809532	EM1809532	EM1809532	EM1810871

						Lab Report Number	EW 10 102 19	EMITOTOZIS	EM1809816	EM1809816	EM1809816	EM1809816	EM1012009	EM1812809	EM1014744	EM1814744	EM1814744	EM1809532	EM1809532	EM1809532	EM1809532	EW 10 1007 1
					EPA Victoria IWRG	EPA Victoria IWRG 621 Trigger for Leachate																
	Unit	EQL	621 Category B	621 Category C	621 Clean Fill	Testing					1			_			,		,			
Inorganics Cyanide (Total)			10000	2500	50	160																
Major Iona	mg/kg	1	10000	2300	50	100	- 1				<1	*1			<1					<1		
Fluoride	mg/kg	40	40000	10000	450	3000	120	140	230	250	300	240	520	410	260	360	400	140	380	110	520	240
Metala	Illiging	40	40000	10000	450	5500	120	140	200	200	500	240	020	410	200	500	400	140	500	110	52.0	240
Arsenic	mg/kg	5	2000	500	20	14	<5	<5	<5	<5	10	<5	6	5	5	8	<5	<5	12	<5	5	23
Cadmium	mg/kg	1	400	100	3	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium (hexavalent)	mg/kg	0.5	2000	500	1	100	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium (III+VI)	mg/kg	2						-	-	-	-				-		-		-	-	-	
Copper	mg/kg	5		5000	100	4000	9	6	6	8	20	12	20	26	11	22	12	<5	10	<5	18	29
Lead	mg/kg	5	6000	1500	300	20	14	10	10	15	28	15	13	12	30	248	16	7	26	8	16	18
Mercury Molybdenum	mg/kg	0.1	300 4000	1000	40	100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	0.3	<0.1	0.3	<0.1
Nickel	mg/kg mg/kg	2	12000	3000	60	40	22	9	7	10	31	16	26	26	15	23	15	4	15	4	23	79
Selenium	mg/kg	5	200	50	10	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Silver	mg/kg	2		180	10	200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tin	mg/kg	5		500	50		<5	<5	<5	<5	<5	<5	<5	<5	<5	11	<5	<5	<5	<5	<5	<5
Zinc	mg/kg	5	140000	35000	200	6000	30	11	13	38	48	31	41	66	28	125	25	5	11	6	18	54
BTEXN																						
Benzene	mg/kg	0.2	16	4	1	2	< 0.2	<0.2	< 0.2	< 0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5
Ethylbenzene Xylene (o)	mg/kg	0.5					<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5	<0.5	< 0.5	<0.5 <0.5
Xylene (o) Xylene (m & p)	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xviene (m & p) Xviene Total	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	×0.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH - NEPM 2013	grag	0.5					>0.0	~0.0	~0.0	~0.0	>0.0	~0.0	~0.0	~0.0	~0.0	>0.0	~0.0	~0.0	~0.0	~0.0	>0.0	50.0
F1 (C6-C10 minus BTEXN)	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C6-C10 Fraction	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (>C10-C16 minus Naphthalene)	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C16 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
F3 (>C16-C34 Fraction)	mg/kg	100					250	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F4 (>C34-C40 Fraction) >C10-C40 (Sum of Total)	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of Total) TRH - NEPM 1999	mg/kg	50					250	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C6-C9 Fraction	mg/kg	10	2600	650	100		<10	e10	<10	<10	e10	e10	e10	<10	<10	e10	<10	c10	<10	e10	<10	<10
C10-C14 Fraction	mg/kg	50	2000	000	100		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15-C28 Fraction	mg/kg	100					150	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29-C36 Fraction	mg/kg	100					150	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C10-C36 (Sum of Total)	mg/kg	50	40000	10000	1000		300	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
PAHs																						
Sum of polycyclic aromatic hydrocarbons Pyrene	mg/kg	0.5					20.8	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5	1.5 0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5
Acenaphthene	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	0.5					0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	0.5					0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5					1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a) pyrene Benzo(b+j+k)fluoranthene	mg/kg	0.5	20	5	1	0.02	3.0	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5
	mg/kg	0.5					4.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5					2.6	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
Chrysene Dibenz(a,h)anthracene	mg/kg	0.5 0.5					1.5 0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg mg/kg	0.5					1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5					1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5
Phenanthrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total) - Lab calc	mg/kg	0.5		100	20		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total 8 PAHs (as BaP TEQ)(zero LOR) - L		0.5					4.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(half LOR) - La	ab Call mg/kg	0.5					4.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lai Phenois	so calorng/kg	0.5					4.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Phenois(halogenated) - Lab Calc	mg/kg	0.03				40	<0.07 ⁶⁴	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03
3/4-Methylphenol (m/p-cresol)	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenois (non-halogenated) - Lab Calc	mg/kg	1				280	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,3,5,6-Tetrachlorophenol	mg/kg	0.03					<0.07*4	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03
2,4,5-trichlorophenol	mg/kg	0.05					<0.07*4	<0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	< 0.05	<0.05
2,4,6-trichlorophenol	mg/kg	0.05					<0.07*4	<0.05	< 0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	<0.05
2,4-dichlorophenol	mg/kg	0.03					<0.07*4	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
2,4-dimethylphenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-dinitrophenol	mg/kg	5					<6 ⁸⁴	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2,6-dichlorophenol	mg/kg	0.03					<0.07*4	<0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	mg/kg	0.05					< 0.14*4	<0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05
2-chlorophenol	mg/kg	0.03					<0.07*4	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03
2-methylphenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-nitrophenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4,6-Dinitro-o-cyclohexyl phenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-chloro-3-methylphenol 4-nitrophenol	mg/kg	0.03					<0.07**	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
4-nitrophenol Pentachlorophenol	mg/kg mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenois (Total Halogenated)	mg/kg	0.03						-		-				1	-		-		-			
Phenois (Total Non Halogenated)	mg/kg	1						-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			•		•				•	•	•							•	•	•		



Summary of Soil Analytical Results

Local	tion Code	NEL-BH225	NEL-BH232	NEL-BH232	NEL-EF-BH003	NEL-EF-BH003	NEL-EF-BH005	NEL-EF-BH005	NEL-EF-BH006	NEL-EF-BH006	NEL-EF-BH007	NEL-EF-BH007	NEL-EF-BH009	NEL-EF-BH009	NEL-EF-BH011	NEL-EF-BH013
Depti	h	1 - 1.1	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1 - 1.1	0.2 - 0.3	1 - 1.1	0.5 - 0.6	1.5 - 1.6	0.2 - 0.3	0.5 - 0.6	0.5 - 0.6	1.5 - 1.6	0.2 - 0.3	0.5 - 0.6
Date		6/07/2018	22/06/2018	22/06/2018	9/07/2018	9/07/2018	1/06/2018	1/06/2018	9/07/2018	9/07/2018	28/05/2018	28/05/2018	4/07/2018	4/07/2018	28/05/2018	10/08/2018
Fleid	ID	NEL-BH225_1.0m	NEL-BH232_0.5m	NEL-BH232_1.5m	NEL-EF-BH003_0.5m	NEL-EF-BH003_1.0m	NEL-EF-BH005_0.2m	NEL-EF-BH005_1.0m	NEL-EF-BH006_0.5m	NEL-EF-BH006_1.5m	NEL-EF-BH007_0.2m	NEL-EF-BH007_0.5m	NEL-EF-BH009_0.5m	NEL-EF-BH009_1.5m	NEL-EF-BH011_0.2m	NEL-EF-BH013_0.5
Samp	ple Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Lab F	Report Number	EM1810871	EM1810220	EM1810220	EM1811071	EM1811071	EM1809091	EM1809091	EM1811071	EM1811071	EM1808781	EM1808781	EM1810779	EM1810779	EM1808781	EM1812810

						Lab Report Number	EM1810871	EM1810220	EM1810220	EM1811071	EM1811071	EM1809091	EM1809091	EM1811071	EM1811071	EM1808781	EM1808781	EM1810779	EM1810779	EM1808781	EM1812810
						EPA Victoria IWRG 621															
			EPA Victoria IWRG	EPA Victoria IWRG	EPA Victoria IWRG																
	Unit	EQL	621 Category B	621 Category C	621 Clean Fill	Testing															
Inorganios Cyanide (Total)			10000	2500	50	160															
Cyanide (Total) Major Iona	mg/kg	1	10000	2500	50	160	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluoride	mg/kg	40	40000	10000	450	3000	240	250	260	300	210	160	200	220	270	230	540	340	170	200	340
Metals																					
Arsenic Cadmium	mg/kg	5	2000 400	500 100	20	14	<5	<5	<5	<5	<5	5	<5	<5	<5	<5	9	<5	<5	<5	6
Chromium (hexavalent)	mg/kg mg/kg	0.5		500	1	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
Chromium (III+VI)	mg/kg	2	2000	500		100					-0.0	-0.0					-0.0				50.0
Copper	mg/kg	5	20000	5000	100	4000	8	8	11	10	<5	19	15	12	12	11	24	18	<5	12	14
Lead	mg/kg	5		1500	300	20	12	12	14	10	8	32	20	14	11	42	34	17	7	16	20
Mercury Molybdenum	mg/kg mg/kg	0.1	300 4000	75 1000	1 40	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	2	12000	3000	60	40	9	12	15	21	9	23	14	17	22	16	51	51	9	23	20
Selenium	mg/kg	5	200	50	10	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Silver	mg/kg	2	720	180	10	200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tin Zinc	mg/kg	5	140000	500 35000	50 200	6000	<5 13	<5 20	<5 22	<5 33	<5 11	<5 39	<5 32	<5 32	<5 20	<5 46	<5 70	<5 44	<5	<5 36	<5 34
BTEXN	mg/kg	3	140000	30000	200	0000	13	20	22	33		35	32	32	20	40	70	44			34
Benzene	mg/kg	0.2	16	4	1	2	< 0.2	< 0.2	< 0.2	<0.2	< 0.2	<0.2	< 0.2	< 0.2	< 0.2	<0.2	< 0.2	<0.2	<0.2	< 0.2	<0.2
Toluene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene Xylene (o)	mg/kg mg/kg	0.5					<0.5 <0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5	<0.5 <0.5	<0.5 <0.5
Xylene (m & p)	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Xylene Total	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5
TRH - NEPM 2013		1									1						1		1	+	
F1 (C6-C10 minus BTEXN) C6-C10 Fraction	mg/kg mg/kg	10					<10 <10	<10	<10	<10 <10	<10 <10	<10	<10	<10	<10	<10 <10	<10 <10	<10	<10 <10	<10	<10 <10
F2 (>C10-C16 minus Naphthalene)	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C16 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
F3 (>C16-C34 Fraction)	mg/kg	100					<100	<100 <100	<100 <100	<100	<100 <100	<100 120	<100	<100	<100	<100 <100	<100 <100	<100	<100 <100	<100 <100	<100 <100
F4 (>C34-C40 Fraction) >C10-C40 (Sum of Total)	mg/kg mg/kg	100					<100 <50	<100 <50	<100 <50	<100 <50	<100 <50	120	<100 <50								
TRH - NEPM 1999	IIIging	- 50					-50	-50	-50	-50	-50	120	-50	-50	-50	-50	-50	-50	-50		
C6-C9 Fraction	mg/kg	10	2600	650	100		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C10-C14 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15-C28 Fraction C29-C36 Fraction	mg/kg mg/kg	100					<100 <100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C10-C36 (Sum of Total)	mg/kg	50	40000	10000	1000		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
PAHs																					
Sum of polycyclic aromatic hydrocarbons	mg/kg	0.5					<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	3.3
Pyrene Acenaphthene	mg/kg mg/kg	0.5					<0.5 <0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5	<0.5	0.9 <0.5
Acenaphthylene	mg/kg	0.5					< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5	20	5	1	0.02	<0.5 <0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a) pyrene Benzo(b+j+k)fluoranthene	mg/kg mg/kg	0.5	20	5	'	0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6 <0.5
Benzo(g,h,i)perylene	mg/kg	0.5					<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene Fluoranthene	mg/kg mg/kg	0.5					< 0.5	<0.5 <0.5	< 0.5	<0.5 <0.5	<0.5	<0.5 <0.5	< 0.5	<0.5 <0.5	<0.5	<0.5 <0.5	< 0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5
Fluorene	mg/kg	0.5						<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5					<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5
Naphthalene	mg/kg	0.5					<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5
Phenanthrene PAHs (Sum of total) - Lab calc	mg/kg mg/kg	0.5	400	100	20		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab		0.5		100	20		<0.5	<0.5	<0.5	<0.5	<0.5	<0.6 ⁸⁴	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(half LOR) - Lab C	Call mg/kg	0.5					0.6	0.6	0.6	0.6	0.6	<0.6*4	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab C	ald mg/kg	0.5					1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Phenois Dispusio(holomopated), Lab Colo	malka	0.03				40	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Phenois(halogenated) - Lab Calc 3/4-Methylphenol (m/p-cresol)	mg/kg mg/kg	0.03				40	<0.03	<1	<0.03	<0.03	<0.03	<0.03	<1	<1	<0.03	<0.03	<0.03	<0.03	<1	<1	<0.03
Phenois (non-halogenated) - Lab Calc	mg/kg	1				280	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,3,5,6-Tetrachlorophenol	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	<0.03
2,4,5-trichlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4,6-trichlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4-dichlorophenol 2,4-dimethylphenol	mg/kg mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
2,4-dinitrophenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2,6-dichlorophenol	mg/kg	0.03					< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	mg/kg	0.05					<0.05	< 0.05	<0.05	<0.05	<0.05	<0.06*4	< 0.05	<0.05	< 0.05	<0.05	<0.05	< 0.05	<0.05	< 0.05	<0.05
2-chlorophenol	mg/kg	0.03					<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03
2-methylphenol 2-nitrophenol	mg/kg mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4,6-Dinitro-o-cyclohexyl phenol	mg/kg mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-chloro-3-methylphenol	mg/kg	0.03					<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03
4-nitrophenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Pentachlorophenol	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenol Phenols (Total Halogenated)	mg/kg mg/kg	0.03					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenois (Total Non Halogenated)	mg/kg	1					-				-	-	-		-	-	-	-	-		-
										_					•						

GHD

Appendix J Table 3 Summary of Soil Analytical Results

Location Code	NEL-EF-BH013	NEL-EF-BH014	NEL-EF-BH014	NEL-EF-BH015	NEL-EF-BH015	NEL-EF-BH016	NEL-EF-BH016	NEL-EF-BH017	NEL-EF-BH017	NEL-EF-BH017	NEL-EF-BH017	NEL-EF-BH017	NEL-EF-BH017
Depth	1 - 1.1	0.5 - 0.6	1 - 1.1	0.5 - 0.6	1 - 1.1	0.2 - 0.3	1 - 1.1	0.5 - 0.6	0.5 - 0.6	1 - 1.1	1.5 - 1.6	2 - 2.1	3 - 3.1
Date	10/08/2018	9/07/2018	9/07/2018	14/06/2018	14/06/2018	5/06/2018	5/06/2018	5/06/2018	5/06/2018	5/06/2018	5/06/2018	15/06/2018	15/06/2018
Field ID	NEL-EF-BH013_1.0	NEL-EF-BH014_0.5m	NEL-EF-BH014_1.0m	NEL-EF-BH015_0.5	NEL-EF-BH015_1.0	NEL-EF-BH016_0.2m	NEL-EF-BH016_1.0m	NEL-EF-BH017_0.5m	QC1004	NEL-EF-BH017_1.0m	NEL-EF-BH017_1.5m	NEL-EF-BH017_2.0m	NEL-EF-BH017_3.0m
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal	Normal
Lab Report Number	EM1812810	EM1811071	EM1811071	EM1809614	EM1809614	EM1809234	EM1809234	EM1809234	EM1809234	EM1809234	EM1809234	EM1809613	EM1809613

						Lab Report Number	EM1812810	EM1811071	EM1811071	EM1809614	EM1809614	EM1809234	EM1809234	EM1809234	EM1809234	EM1809234	EM1809234	EM1809613	EM1809613
						EPA Victoria IWRG 621													
			EPA Victoria IWRG	EPA Victoria IWRG	EPA Virtoria IWRG	Trigger for Leachate													
	Unit		621 Category B	621 Category C	621 Clean Fill	Testing													
Inorganics Cyanide (Total)																			
Cyanide (Total)	mg/kg	1	10000	2500	50	160	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Major ions		-																	
Fluoride Metals	mg/kg	40	40000	10000	450	3000	380	380	520	500	250	200	350	440	580	340	210	270	480
Arsenic	mg/kg	5	2000	500	20	14	7	12	7	6	<5	<5	6	<5	<5	5	6	10	7
Cadmium	mg/kg	1	400	100	3	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium (hexavalent)	mg/kg	0.5	2000	500	1	100	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
Chromium (III+VI)	mg/kg	2						-	-	-	-	-		-			-	-	-
Copper	mg/kg	5	20000	5000	100	4000	30	23	15	15	10	9	14	23	22	19	41	<5	9
Lead	mg/kg	5	6000	1500	300	20	29	36	15	24	16	15	18	39	34	43	30	12	14
Mercury Molybdenum	mg/kg	0.1	300 4000	75 1000	1 40	100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	<0.1	<0.1
Nickel Nickel	mg/kg mg/kg	2	12000	3000	60	100	47	24	<2 17	24	11	<2 7	20	15	14	<2	<2 5	<2	15
Selenium	mg/kg	5	200	50	10	20	<5	<5	<5	<5	<5	<5	20 55	<5	<5	<5	<5	<5	<5
Silver	mg/kg	2	720	180	10	200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tin	mg/kg	5		500	50		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Zinc	mg/kg	5	140000	35000	200	6000	52	58	26	42	19	16	35	76	68	66	59	7	19
BTEXN																			
Benzene	mg/kg	0.2	16	4	1	2	<0.2	<0.2	<0.2	< 0.2	< 0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	< 0.2
Toluene Ethylbenzene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene Xylene (o)	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene (b) Xylene (m & p)	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene Total	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
TRH - NEPM 2013																			
F1 (C6-C10 minus BTEXN)	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C6-C10 Fraction	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (>C10-C16 minus Naphthalene) >C10-C16 Fraction	mg/kg	50 50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C16 Fraction F3 (>C16-C34 Fraction)	mg/kg	100					<50 <100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50 <100
F4 (>C34-C40 Fraction)	mg/kg mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of Total)	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
TRH - NEPM 1999																			
C6-C9 Fraction	mg/kg	10	2600	650	100		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C10-C14 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15-C28 Fraction	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29-C36 Fraction C10-C36 (Sum of Total)	mg/kg	100	40000	10000	1000		<100 <50	<100 <50	<100 <50	<100 <50	<100 <50	<100 <50							
PAHs	mg/kg	50	40000	10000	1000		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<20
Sum of polycyclic aromatic hydrocarbons	mg/kg	0.5					8.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	mg/kg	0.5					1.6	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5
Acenaphthene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5	20	5	1	0.02	0.9	<0.5	< 0.5	<0.5	< 0.5	<0.5 <0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5	<0.5
Benzo(a) pyrene Benzo(b+j+k)fluoranthene	mg/kg mg/kg	0.5		5	1	0.02	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5					0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	mg/kg	0.5					0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	0.5					1.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5
Fluorene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene Phenanthrene	mg/kg mg/kg	0.5					<0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5 <0.5	<0.5
Phenanthrene PAHs (Sum of total) - Lab calc	mg/kg mg/kg	0.5	400	100	20		1.0	~0.0	~0.0	~0.0	~0.0	×0.0	~0.0	~0.0	~0.0	~0.0	~0.0	~0.0	~0.0
Total 8 PAHs (as BaP TEQ)(zero LOR) - La		0.5					1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(half LOR) - Lat		0.5					1.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab	b Cald mg/kg	0.5					1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Phenois																			
Phenois(halogenated) - Lab Calc	mg/kg	0.03				40	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
3/4-Methylphenol (m/p-cresol)	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenois (non-halogenated) - Lab Calc 2.3.5.6-Tetrachlorophenol	mg/kg	0.03				280	<0.03	<1	<1	<0.03	<1	<1	<1	<1	<0.03	<0.03	<1	<1	<0.03
	mg/kg								<0.03 <0.05		<0.03 <0.05	<0.03 <0.05		<0.03	<0.03		<0.03		<0.03
2,4,5-trichlorophenol 2,4,6-trichlorophenol	mg/kg mg/kg	0.05					<0.05 <0.05	<0.05	<0.05	<0.05	<0.05 <0.05	<0.05 <0.05							
2,4-dichlorophenol	mg/kg mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2,4-dichiorophenol 2,4-dimethylphenol	mg/kg mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<0.03	<1	<1	<1	<1	<1
2,4-dinitrophenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2,6-dichlorophenol	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	< 0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-chlorophenol	mg/kg	0.03					<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03
2-methylphenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-nitrophenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4,6-Dinitro-o-cyclohexyl phenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-chloro-3-methylphenol	mg/kg	0.03					<0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03
4-nitrophenol	mg/kg	5 0.2					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Pentachlorophenol Phenol	mg/kg mg/kg	1					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Phenois (Total Halogenated)	mg/kg	0.03					- 1	1			-			-				-	+ -
Phenois (Total Non Halogenated)	mg/kg	1						+	-	-	-	+ :	+		1	+ :	—	+ :	+ : -
(-				-	1	-	

GHD

Appendix J Table 3 Summary of Soil Analytical Results

						Date	0.2 * 0.3	0.0 = 0.0	0.2 = 0.3	1 * 1.1	0.0 - 0.0	1.5 * 1.0	0.0 = 0.0	1 * 1.1
							14/06/2018	14/06/2018	7/06/2018	7/06/2018	10/08/2018	10/08/2018	10/08/2018	10/08/2018
						Field ID	NEL-EF-BH018_0.2	NEL-EF-BH018_0.5		NEL-EF-BH019_1.0m		NEL-EF-BH021_1.5		
						Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
						Lab Report Number EPA Victoria IWRG 621	EM1809614	EM1809614	EM1809231	EM1809231	EM1812810	EM1812810	EM1812810	EM1812810
	Unit	EQL	EPA Victoria IWRG	EPA Victoria IWRG	EPA Victoria IWRG	Trigger for Leachate								
inorganics	Unit	EQL	621 Category B	621 Category C	621 Clean Fill	Testing		1	1	ı	1	1	1	
Cyanide (Total)	mg/kg	- 1	10000	2500	50	160	<1	<1	<1	<1	<1	<1	<1	<1
Major Ions		+ -											-	
Fluoride	mg/kg	40	40000	10000	450	3000	140	500	210	320	310	310	340	300
Metals														
Arsenic	mg/kg	5	2000	500	20	14	6	<5	<5	11	<5	<5	<5	8
Cadmium	mg/kg	1	400	100	3	4	<1	<1	<1	<1	<1	<1	<1	<1
Chromium (hexavalent)	mg/kg	0.5	2000	500	1	100	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5
Chromium (III+VI)	mg/kg	2						-	-	-				
Copper	mg/kg	5	20000	5000	100	4000	7	11	13	21	10	10	14	20
Lead	mg/kg	5	6000	1500	300	20	27	11	22	42	13	11	15	15
Mercury	mg/kg	0.1	300	75	1	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	2	4000	1000	40	100	<2	<2	<2	<2	<2	<2	<2	<2
Nickel	mg/kg	2	12000	3000	60	40	<2	13	16	7	15 <5	14 <5	20 <5	34 <5
Selenium	mg/kg	5	200	50 180	10 10	20 200	<5	<5	<5	<5				
	mg/kg	2	720		50	200	<2	<2	<2	<2	<2	<2	2	<2
Tin Zinc	mg/kg mg/kg	5	140000	500 35000	200	6000	9	- 8	35	40		48	40	62
Zinc BTEXN	mg/kg	- 5	140000	35000	200	6000	y y		35	40	22	40	40	02
Benzene	mg/kg	0.2	16	4	1	2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xviene (o)	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene (m & p)	mg/kg	0.5					< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5
Xylene Total	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH - NEPM 2013									-				-	
F1 (C6-C10 minus BTEXN)	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10
C6-C10 Fraction	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10
F2 (>C10-C16 minus Naphthalene)	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50
>C10-C16 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50
F3 (>C16-C34 Fraction)	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100
F4 (>C34-C40 Fraction)	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of Total)	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50
TRH - NEPM 1999														
C6-C9 Fraction	mg/kg	10	2600	650	100		<10	<10	<10	<10	<10	<10	<10	<10
C10-C14 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50
C15-C28 Fraction	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100
C29-C36 Fraction	mg/kg	100					<100	<100	<100	<100	<100	<100	<100	<100
C10-C36 (Sum of Total)	mg/kg	50	40000	10000	1000		<50	<50	<50	<50	<50	<50	<50	<50
PAHs	ma/ka	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of polycyclic aromatic hydrocarbons Pyrene		0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	mg/kg	0.5					×0.5	×0.5	×0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5	<0.5
Anthracene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a) pyrene	mg/kg	0.5	20	5	1	0.02	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b+j+k)fluoranthene	mg/kg	0.5					<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5					<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	mg/kg	0.5					<0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5
Dibenz(a,h)anthracene	mg/kg	0.5					<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg	0.5					<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5
Fluorene	mg/kg	0.5					<0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5					<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5
Phenanthrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PAHs (Sum of total) - Lab calc	mg/kg	0.5	400	100	20				-	-	-	-	-	
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab		0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total 8 PAHs (as BaP TEQ)(half LOR) - Lab C	al mg/kg	0.5					0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab Co	ald mg/kg	0.5					1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Phenois											ļ			1
Phenois(halogenated) - Lab Calc	mg/kg	0.03				40	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03
3/4-Methylphenol (m/p-cresol)	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1
Phenois (non-halogenated) - Lab Calc	mg/kg	1				280	<1	<1	<1	<1	<1	<1	<1	<1
2,3,5,6-Tetrachlorophenol	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03
2,4,5-trichlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	< 0.05	< 0.05
2,4,6-trichlorophenol	mg/kg	0.05					<0.05	<0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2,4-dichlorophenol	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
2,4-dimethylphenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1
2,4-dinitrophenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5
2,6-dichlorophenol	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	mg/kg	0.05					< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-chlorophenol	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
2-methylphenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1
2-nitrophenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1
4,6-Dinitro-o-cyclohexyl phenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5
4-chloro-3-methylphenol	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03
4-nitrophenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5
Pentachlorophenol	ma/ka	0.2					< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	<0.2



Summary of Soil Analytical Results

Location Code	NEL-ENV-BH003	NEL-ENV-BH003	NEL-ENV-BH005	NEL-ENV-BH005	NEL-ENV-BH009	NEL-ENV-BH009	NEL-ENV-BH009	NEL-ENV-BH009	NEL-ENV-BH009	NEL-ENV-BH011	NEL-ENV-BH011	NEL-ENV-BH012	NEL-ENV-BH012	NEL-ENV-BH014	NEL-ENV-BH016
LOCATION COUR	THEE-EITH-DITIOUS	THEE-EINT-DITIOUS	INCE-CINY-DI1000	TALE-LIAY-DI 1000	THEE-EINV-DITIOUS	NEE-ENV-DI 1000	MEE-ENV-DITIOUS	TALL-LIAY-DITIOUS	THEE-EINE-DITIOUS	TATE-FIAT-DISOTI	THEE-EITH - DITIOTT	THEE-EITH-DITOTE	THEE-EITH - DITOTE	TELL-LITT-DITOTT	TALL-LIAN-DITOTO
Depth	0.2 - 0.3	1 - 1.1	0.5 - 0.6	1 - 1.1	1.5 - 1.6	2.45 - 2.9	3.8 - 4	4.8 - 5	4.8 - 5	0.5 - 0.6	1.5 - 1.6	1 - 1.1	1.5 - 1.6	0.5 - 0.6	0.5 - 0.6
Date	18/09/2018	18/09/2018	18/09/2018	18/09/2018	1/06/2018	2/06/2018	2/06/2018	2/06/2018	2/06/2018	27/06/2018	27/06/2018	13/07/2018	13/07/2018	1/06/2018	13/07/2018
Field ID	NEL-ENV-BH003_0.2m	NEL-ENV-BH003_1.0m	NEL-ENV-BH005_0.5m	NEL-ENV-BH005_1.0m	NEL-ENV-BH009_1.5-	NEL-ENV-BH009_2.45	NEL-ENV-BH009_3.8-	NEL-ENV-BH009_4.8-	QC3001	NEL-ENV-BH011_0.5n	NEL-ENV-BH011_1.5n	NEL-ENV-BH012_1.0	NEL-ENV-BH012_1.5	NEL-ENV-BH014_0.5n	NEL-ENV-BH016_0.5
Sample Type	Normal	Field_D	Normal	Normal	Normal	Normal	Normal	Normal							
Lab Report Numbe	EM1815165	EM1815165	EM1815165	EM1815165	EM1809010	EM1809010	EM1809010	EM1809010	EM1809010	EM1810388	EM1810388	EM1811286	EM1811286	EM1809091	EM1811286

Part					_		Lab Report Number	EM1815165	EM1815165	EM1815165	EM1815165	EM1809010	EM1809010	EM1809010	EM1809010	EM1809010	EM1810388	EM1810388	EM1811286	EM1811286	EM1809091	EM1811286
The color The				EDA Metada IMBO	EDA Vistada IMBO	EDA Medada IMBO																
Column C		I India	EOI				Ingger for Leachate															
The color	Inomenics	Olik	EGL	OZ I Calegory B	621 Category C	021 Ciedii Fili	resurg			1			1	1								
The color	Cyanide (Total)	mg/kg	1	10000	2500	50	160	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Septiment	Major Ions																					
Segretarian with the property of the property	Fluoride	mg/kg	40	40000	10000	450	3000	310	500	460	460	280	360	320	320	310	360	360	250	240	340	280
Care Fig. 1																						
Second S			5		500			5	<5	5	<5	<5	- 6	<5	6	9	<5	<5	8	7	<5	<5
Service No. 1						-		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Second S	Chromium (IllaVI)			2000	500	'	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<u.5< td=""></u.5<>
The column		ma/ka		20000	5000	100	4000	- 11	16	14	13	13	15	7	- 11	16	19	21	7	9	12	6
Second Part	Lead	mg/kg	5	6000	1500	300	20	14	11	11	10	24	12	6	10	11	14	14	17	20	11	9
Second		mg/kg	0.1				2	<0.1	<0.1	<0.1	<0.1	0.1	< 0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	<0.1	< 0.1	<0.1	<0.1
Seet 14. 1	Molybdenum	mg/kg	2	4000				<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
The control of the co	Nickel								24	36	22		29	16		23		36	13			
The color The	Selenium	mg/kg						<5	<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	< >	< >	<>
The color							200	*Z	<2	*Z	<2	- 5	<2	<5	*Z	*Z	<z< td=""><td>*Z</td><td><2 e5</td><td>- 52</td><td>*Z</td><td>*2 *5</td></z<>	*Z	<2 e5	- 52	*Z	*2 *5
No.	Zinc						6000	32	40	47	36	39	36	33	40	51		57	11	18	26	
Service Spire 194			Ť								-			-	-			-	-			
State	Benzene	mg/kg	0.2	16	4	1	2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	< 0.2	<0.2	<0.2	<0.2
Second Property 15		mg/kg						<0.5	<0.5	<0.5			<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5		<0.5
Table	Ethylbenzene							<0.5	<0.5	<0.5			<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5		<0.5
The color																						
Company Comp		mg/kg								≤0.5 ≤0.5				<0.5	<0.5			<0.0 ≤0.5	<0.0	≤0.5		<0.5
Figure Column C		grng	0.5					50.0	~0.0	NO.0	~0.0	~0.0	>0.0	~0.0	~0.0	70.0	>0.0	~0.0	~0.0	>0.0	~0.0	~0.0
SCOREGAM PART OF THE PART OF T	F1 (C6-C10 minus BTEXN)	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Section Sect	C6-C10 Fraction		10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Proceedings	F2 (>C10-C16 minus Naphthalene)								<50		<50	<50		<50	<50		<50		<50	<50	<50	
Trightful end with the second property of the								<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Company Comp	F3 (>C16-C34 Fraction)							<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
The contract of the contract								<100	<100	<100	<100	<100	<100	<100	<100		<100	<100	<100	<100	<100	
Column		mg/kg	50					<50	<50	<500	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<5U	<50
SCAL PLANE NAME OF ALL PROPERTY OF ALL PROPERT		malka	10	2600	650	100		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Control of the cont	C10-C14 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Control Cont	C15-C28 Fraction		100					<100	<100	<100	<100	<100	<100	<100	<100		<100	<100	<100	<100	<100	
The content of the									<100		<100	<100		<100	<100		<100		<100	<100	<100	
Fine physical physi		mg/kg	50	40000	10000	1000		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Personal Program			0.5					-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
Properties	Sum or polycyclic aromatic nydrocarbons Purene																					
Marche 1969 13 1969 15 1969 19	Acenaphthene																					
Templement Physics Physi								<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
Second Part	Anthracene		0.5					<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5
Process Proc		mg/kg																				<0.5
Free Part	Benzo(a) pyrene	mg/kg			5	1	0.02															
Crystall																						
Control processes Part Control								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fourishme	Dihenzía h)anthracene							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Second Column Col																						
Supplement Sup	Fluorene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
Presentative Presentation Pres										<0.5												
PANS (and Fried) - Lab Color (whigh big b) S West										<0.5												
Total B PANE (in Ball TRO)(per LOR) - Lab C ringing 0.5 -0.					100	20		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Table Park (in part Trip)					100	20		-0.5	-0.5	-0.5	<0.5	-0.5	<0.5	<0.5	-0.5	-0.5	-0.5	<0.5		<0.5	-0.5	-0.5
Total Bridge (See PTEO) (BLICK) Leadering (See See See See See See See See See Se	Total 8 PAHs (as BaP TEQ)(balf I OP) - Lab Co	cal mo/kg													0.6							
Premois Prem	Total 8 PAHs (as BaP TEQ)(full LOR) - I sh Ca	ala mg/ka																				
Phenologopathed) - Lab Calc	Phenols									1	-			-	-			-		-		
Set Neglegoristation Process P	Phenois(halogenated) - Lab Calc	mg/kg	0.03				40	<1	<1	<1	<1	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03
## Affinish Replace Market	3/4-Methylphenol (m/p-cresol)	mg/kg						< 0.03		<0.03		<1	<1	<1			<1	<1	<1	<1		<1
2.4.54/bithosphenol mg/kg 0.5	Phenois (non-halogenated) - Lab Calc						280	<1	<1	<1	<1		<1	<1	<1	<1		<1	<1	<1	<1	
2.4 definitionshered mykg 0.5																						
2.4 definition phenol mg/kg 0.51																						
2.4-denotyphenol mpkg 1																						<0.05
2.4.6.fichtpophenial mg/kg 0.51								<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-0.00	<0.03	<0.03	<0.03	<0.03	
2.64 determination mylg 0.51								<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	
23.45 2.46 Patronolocycloped mg/lg 0.5										<5			<5	<5				<5	<5			
2-finespended mpkg 0.53								<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
2-methyphenoi								<0.05 ≥0.03	<0.05 e0.03	<0.00 e0.03	<0.00 e0.02	<0.05 e0.03	<0.00	<0.05	<0.05	<0.05	<0.05 ≥0.03	<0.05	<0.05	<0.00	*U.U5	<0.05 <0.03
2-hiterpland mg/kg 1		mg/kg											<0.03 <1	<0.03					<0.03		<0.03	
4.6-Dinos - optoblewyl phenol mylg 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2-nitrophenol							<1	<1	<1	<1		<1	<1	<1	<1		<1	<1	<1	<1	
4-thino-sherhlytheral mpkg 0.03								<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Animal myle 5								< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Pertablion/phenol mg/kg 0.2	4-nitrophenol		5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Phenols (Total Haldogensted) mg/kg 0.03	Pentachlorophenol	mg/kg						<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Phenois (Total Majogenated) (mplig 0.03 (mplig 1.04 (m								<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Prienois (I otal Non Hatogenated) mg/kg 1	Phenois (Total Halogenated)									-	1	-	-	-	-	-	-	-	-	-	-	-
	rnenois (Total Non Halogenated)	mg/kg	1						-	-		-	1 -	1 -		-	1 -			-	1 -	1 -

Summary of Soil Analytical Results

Ī	ocation Code	NEL-ENV-BH016	NEL-ENV-BH017	NEL-ENV-BH018	NEL-ENV-BH018	NEL-ENV-BH022	NEL-ENV-BH022	NEL-ENV-BH022	NEL-ENV-BH023	NEL-ENV-BH024	NEL-ENV-BH024	NEL-ENV-BH025	NEL-ENV-BH025	NEL-ENV-BH026	NEL-ENV-BH026	NEL-ENV-BH027
Ī	Depth	1.5 - 1.5	0.5 - 0.6	0.5 - 0.6	1.5 - 1.6	0.2 - 0.3	0.5 - 0.6	1.5 - 1.6	0.6 - 0.7	0.5 - 0.6	1 - 1.1	0.3 - 0.4	1 - 1.1	0.1 - 0.2	0.5 - 0.6	0 - 0.1
[Date	13/07/2018	1/06/2018	13/07/2018	13/07/2018	6/06/2018	6/06/2018	6/06/2018	5/06/2018	24/04/2018	24/04/2018	24/04/2018	24/04/2018	24/04/2018	24/04/2018	27/04/2018
1	field ID	NEL-ENV-BH016_1.5	NEL-ENV-BH017_0.5-0	NEL-ENV-BH018_0.5	NEL-ENV-BH018_1.5	NEL-ENV-BH022_0.2m	NEL-ENV-BH022_0.5m	NEL-ENV-BH022_1.5m	NEL-ENV-BH023_0.6-0.7	NEL-ENV-BH024_0.5-0.6	NEL-ENV-BH024_1	NEL-ENV-BH025_0	NEL-ENV-BH025_1	NEL-ENV-BH026_0	NEL-ENV-BH026_0	NEL-ENV-BH027_0.
	Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Ī	ab Report Number	EM1811286	EM1809010	EM1811286	EM1811286	EM1809233	EM1809233	EM1809233	EM1809096	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1806989

						Lab Report Number	EM1811286	EM1809010	EM1811286	EM1811286	EM1809233	EM1809233	EM1809233	EM1809096	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1806989
	Unit	EQL (EPA Victoria IWRG 321 Category B	EPA Victoria IWRG 621 Category C	EPA Victoria IWRG 621 Clean Fill	EPA Victoria IWRG 621 Trigger for Leachate Testing															
Inorganics	-			un ounguly o		Tooling .															
Inorganics Cyanide (Total)	mg/kg	1	10000	2500	50	160	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Major Iona																					
Fluoride	mg/kg	40	40000	10000	450	3000	500	130	220	140	640	340	750	560	430	450	250	680	360	480	<40
Metals																					
Arsenic	mg/kg	5	2000	500	20	14	<5	<5	5	<5	8	11	8	6	<5	5	<5	8	7	6	<5
Cadmium	mg/kg	1	400	100	3	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium (hexavalent)	mg/kg	0.5	2000	500	1	100	< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5
Chromium (III+VI)	mg/kg	2					-	-	-	-		-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	5	20000	5000	100	4000	13	13	8	7	18	39	46	19	20	23	19	30	20	22	11
Lead	mg/kg	5	6000	1500	300	20	9	14	9	7	33	24	16	26	8	8	15	22	18	20	17
Mercury Molybdenum	mg/kg	0.1	300 4000	75 1000	40	100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum Nickel	mg/kg	2	12000	3000	40 60	100	14	25	<2 16	- <2 11	14	27	<2 15	74	20	<2 15	33	59	42	46	12
Selenium	mg/kg mg/kg	5	200	50	10	40	14	25	10	- 11	14	21	15	74	20	10	33	28	42	40	12
Silver	mg/kg	2	720	180	10	200	<2	<2	-0	<2	<2	-0	e2	<2	<2	<2	<2	<2	<2	<2	<2
Tin	mg/kg	5	120	500	50	200	<5	- V2	×2	<5	×2	-25	×2		- 25	×2	×2	×2	×5	×2	<5
Zinc	mg/kg	5	140000	35000	200	6000	16	35	20	19	16	22	13	141	32	26	36	96	42	56	27
BTEXN		-													-			-	-		
Benzene	mg/kg	0.2	16	4	1	2	<0.2	< 0.2	< 0.2	< 0.2	<0.2	< 0.2	<0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Toluene	mg/kg	0.5					< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5
Ethylbenzene	mg/kg	0.5					< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5
Xylene (o)	mg/kg	0.5					<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5
Xylene (m & p)	mg/kg	0.5					<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5
Xylene Total	mg/kg	0.5					<0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRH - NEPM 2013																					
F1 (C6-C10 minus BTEXN)	mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
C6-C10 Fraction	mg/kg mg/kg	10					<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (>C10-C16 minus Naphthalene)		50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C10-C16 Fraction	mg/kg	50					<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
F3 (>C16-C34 Fraction)	mg/kg	100					<100 <100	<100 <100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
F4 (>C34-C40 Fraction) >C10-C40 (Sum of Total)	mg/kg	100 50					<100 <50	<100	<100	<100 <50	<100	<100	<100	<100 <50	<100	<100	<100 <50	<100	<100	<100	<100
TRH - NEPM 1999	mg/kg	50					<50	<50	<50	<00	*5U	<50	<50	<50	<50	<50	<50	<50	<50	<5U	<5U
C6-C9 Fraction	mg/kg	10	2600	650	100		<10	e10	e10	c10	e10	<10	<10	e10	<10	e10	<10	<10	e10	e10	e10
C10-C14 Fraction	mg/kg	50	2000	000	100		<50	<50	<50	<50	<50	e50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15-C28 Fraction	mg/kg	100					<100	<100	<100 e100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29-C36 Fraction	mg/kg	100					<100	<100	±100	<100	<100	<100	r100	<100	<100	<100	<100	<100	<100	<100	<100
C10-C36 (Sum of Total)	mg/kg	50	40000	10000	1000		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
PAHs																					
Sum of polycyclic aromatic hydrocarbons	mg/kg	0.5					< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	mg/kg	0.5					<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5
Acenaphthene	mg/kg	0.5					<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	mg/kg	0.5					<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	mg/kg	0.5					<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	mg/kg	0.5		5			< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5
Benzo(a) pyrene	mg/kg	0.5	20	5	1	0.02	<0.5	-0.0	<0.5			<0.5	<0.5	-0.0	<0.5	< 0.5		<0.5	<0.5	<0.5	<0.5
Benzo(b+j+k)fluoranthene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene Dibenz(a,h)anthracene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	mg/kg mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	mg/kg	0.5					<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5
Phenanthrene	mg/kg	0.5					< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5
PAHs (Sum of total) - Lab calc	mg/kg	0.5	400	100	20		-	-	-	-	-	-	-		<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab	Ca mg/kg	0.5					<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5
Total 8 PAHs (as BaP TEQ)(half LOR) - Lab C	Cal mg/kg	0.5					0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab C							1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Phenois	Cald mg/kg	0.5																			
	Cald mg/kg																				< 0.03
Phenols(halogenated) - Lab Calc	calc mg/kg mg/kg	0.03				40	< 0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	
Phenois(halogenated) - Lab Calc 3/4-Methylphenol (m/p-cresol)	mg/kg mg/kg	0.03					<0.03 <1	<0.03 <1	<0.03 <1	<0.03 <1	<0.03 <1	<0.03 <1	<0.03 <1	<0.03 <1	<0.03 <1	<0.03 <1	<0.03 <1	<0.03 <1	<0.03 <1	<0.03	<0.03
Phenois(halogenated) - Lab Calc 3/4-Methylphenol (m/p-cresol) Phenois (non-halogenated) - Lab Calc	mg/kg mg/kg mg/kg mg/kg	0.03				40	<1	<1		<1	<1			<1	<1	<1	<1	<1	<1	<1	<1
Phenols(halogenated) - Lab Calc 3/4-Methylphenol (m/p-cresol) Phenols (non-halogenated) - Lab Calc 2,3,5,6-Tetrachlorophenol	mg/kg mg/kg mg/kg mg/kg mg/kg	0.03 1 1 0.03					<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03
Phenols(halogenated) - Lab Calc 3/4-Methylphenol (m/p-cresof) Phenols (non-halogenated) - Lab Calc 2,3,5,6-Tetrachlorophenol 2,4,5-trichlorophenol	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.03 1 1 0.03 0.05					<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05
Phenois(halogenated) - Lab Calc 3/4-Methylphenol (m/p-cresol) Phenois (non-halogenated) - Lab Calc 2.3.5.6-Tetrachlorophenol 2.4.5-trichlorophenol 2.4.6-trichlorophenol	mg/kg mg/kg mg/kg mg/kg mg/kg	0.03 1 1 0.03 0.05					<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03	<1 <1 <0.03
Phenois(halogenated) - Lab Calc 3/4-Methylphenol (m/p-cresol) Phenois (non-halogenated) - Lab Calc 2,3,5,6-Tetrachlorophenol 2,4,5-trichlorophenol 2,4,6-trichlorophenol 2,4-dichlorophenol	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.03 1 1 0.03 0.05 0.05 0.05					<1 <1 <0.03 <0.05 <0.05 <0.03	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05 <0.03	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05 <0.05 <0.03	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05	<1 <1 <0.03 <0.05
Phenois(halogenated) - Lab Calc 34-Methylphenol (mip-cresol) Phenois (non-halogenated) - Lab Calc 2.5.5.6-Tetrachlorophenol 2.4.5-trichtorophenol 2.4.5-trichtorophenol 2.4.6-trichtorophenol 2.4-d-intetylphenol	mg/kg	0.03 1 1 0.03 0.05 0.05 0.05					<1 <1 <0.03 <0.05 <0.05 <0.03 <1 <0.05 <0.05 <0.03 <1 <0.03 <1 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05 <0.03 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<1 <1 <0.03 <0.05 <0.05 <0.03 <1	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05 <0.03 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<1 <1 <0.03 <0.05 <0.05 <0.03	<1 <1 <0.03 <0.05 <0.05 <0.03 <1	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05 <0.03	<1 <0.03 <0.05 <0.05 <0.03
Phenois(halogenated) - Lab Calc 34-Methylphennol (m)p-cresol) Phenois (non-halogenated) - Lab Calc 2.3.5 & Tetankrophenol 2.4.5-tichlorophenol 2.4.5-tichlorophenol 2.4.4-dichlorophenol 2.4-dichlorophenol	mg/kg	0.03 1 1 0.03 0.05 0.05 0.05 0.03 1					<1 <1 <0.03 <0.05 <0.05 <0.05 <0.05 <1.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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<0.05 <0.05	<1 <1 <0.03 <0.05 <0.05 <0.03 <1 <5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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<0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05 <0.03 <1 <5
Phenois(halogenated) - Lab Calc 3/4-Methylonen (mip-cresol) Phenois (non-halogenated) - Lab Calc 2.3.5-Tetrachlorophenol 2.4.5-trichlorophenol 2.4.5-trichlorophenol 2.4-dishrophenol 2.4-dishrophenol 2.4-dishrophenol 2.4-dishrophenol 2.4-dishrophenol 2.4-dishrophenol	mg/kg	0.03 1 1 0.03 0.05 0.05 0.05					<1 <1 <0.03 <0.05 <0.05 <0.03 <1 <0.05 <0.05 <0.03 <1 <0.03 <1 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05 <0.03 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<1 <1 <0.03 <0.05 <0.05 <0.03 <1	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05 <0.03 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<1 <1 <0.03 <0.05 <0.05 <0.03	<1 <1 <0.03 <0.05 <0.05 <0.03 <1	<1 <1 <0.03 <0.05 <0.05	<1 <1 <0.03 <0.05 <0.05 <0.03	<1 <0.03 <0.05 <0.05 <0.03
Phenoit/shalogenated) - Lab Calc 344. Methylypheni (mi)-cresol) Phenoit (non-halogenated) - Lab Calc 2.4.5.6 Fritanchoephenol 2.4.5 Heichbrophenol 2.4.6 Heichbrophenol 2.4.4 delitorophenol 2.4.4 delitorophenol 2.4.4 delitorophenol 2.5.4 delitorophenol 2.5.4 delitorophenol	mg/kg	0.03 1 1 0.03 0.05 0.05 0.03 1 5 0.03					<1 <1 <1 <0.03 <0.05 <0.05 <0.05 <0.03 <1 <5 <0.03 <1 <0.05 <0.05 <0.03 <1 <0.03 <1 <0.05 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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Phenois/Bulogenated) - Lab Calc 344-Methyshenoi (mic)-resol) Phenois (non-halogenated) - Lab Calc 2.4.5 etchborophenol 2.4.5 etchborophenol 2.4.6 etchborophenol 2.4.4 dimethyshenol 2.4.4 dimethyshenol 2.4.4 dimethyshenol 2.4.4 dimethyshenol 2.3.4.5 b 2.3.6.7 etchborophenol 2.3.4.5 b 2.3.6.7 etchborophenol	mg/kg	0.03 1 1 0.03 0.05 0.05 0.05 0.03 1 5					<1 <1 <1 <0.03 <0.05 <0.05 <0.05 <0.03 <1 <1 <5 <0.03	<1 <1 <1 <0.03 <0.05 <0.05 <0.03 <1 <1 <5 <0.03 <1 <5 <0.05 <0.03 <1 <5 <0.03 <1 <5 <0.03 <1 <5 <0.03 <1 <5 <0.03 <1 <5 <0.03 <1 <5 <0.03 <1 <5 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 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Phenois/Judognate(9) - LB Calo 344-Methyshenois (my)-resolo) Phenois (non-halogenated) - LB Calo 2.4.5-Bethinophenol 2.4.5-Bethinophenol 2.4.5-Bethinophenol 2.4.6-Bethinophenol 2.4.6-Bethinophenol 2.4.6-Bethinophenol 2.4.6-Bethinophenol 2.5.6-Bethinophenol 2.5.6-Bethinophenol 2.5.6-Bethinophenol 2.6-Bethinophenol 2.6-Bethinophenol 2.6-Bethinophenol 2.6-Bethinophenol	mg/kg	0.03 1 1 0.03 0.05 0.05 0.05 0.03 1 5 0.03 0.05					<1 <1 <1 <0.03 <0.05 <0.05 <0.05 <0.03 <1 <5 <0.03 <1 <0.05 <0.05 <0.03 <1 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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Phenois/Bulogenated) - Lab Calc 344-Methyshenoi (mic)-resol) Phenois (non-halogenated) - Lab Calc 2.4,5 etchhorophenol 2.4,5 etchhorophenol 2.4,6 etchhorophenol 2.4-dintophenol 2.4-dintophenol 2.3,4 fish 2,5 2,3,6 Febrachorophenol 2.3,4 fish 2,2 3,6 Febrachorophenol 2.3,4 fish 2,2 3,6 Febrachorophenol 2.3,4 fish 2,2 3,6 Febrachorophenol 2.methyshenol	mg/kg	0.03 1 1 0.03 0.05 0.05 0.03 1 5 0.03 0.05 0.03					<1 <1 <1 <0.03 <0.05 <0.05 <0.05 <0.03 <1 <5 <0.03 <1 <0.05 <0.05 <0.03 <1 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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Phenois (Marcjenated) - Lab Calc 344 Methythenoi (mich cessol) Phenois (non-halogenated) - Lab Calc 2.4.5 etchhorophenol 2.4.5 etchhorophenol 2.4.6 etchhorophenol 2.4.4 dimethythenol 2.4.4 dimethythenol 2.4.4 dimethythenol 2.3.4.5 b 2.3.6.7 etchhorophenol 2.3.4.5 b 2.3.6.7 etchhorophenol 2.3.4.5 b 2.3.6.7 etchhorophenol 2.3.6 b 2.3.6.7 etchhorophenol 2.9.6 b 2.3.6.7 etchhorophenol 2.9.6 b 2.4.6 etchhorophenol	mg/kg	0.03 1 1 0.03 0.05 0.05 0.03 1 5 0.03 0.05 0.03 1 5 0.03					<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <1 <1 <10.03 <0.05 <0.05 <0.05 <0.05 <0.05 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<1 <1 <1 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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Phenois/Mologenate(s) - Lab Calc 344. Methylythero ((m)-cresol) Phenois (non-halogenated) - Lab Calc 2.4.5 e/chologenated) - Lab Calc 2.4.5 e/chologenated) - Lab Calc 2.4.5 e/chologenated 2.4.6 e/chologenated 2.4.6 e/chologenated 2.4.6 e/chologenated 2.4.6 e/chologenated 2.4.6 e/chologenated 2.4.6 e/chologenated 2.6.6 e/chologenated 2.6.6 e/chologenated 2.6.6 e/chologenated 2.6.6 e/chologenated 2.6.6 e/chologenated 2.6.6 e/chologenated 4.6 e/ch	mg/kg	0.03 1 1 0.03 0.05 0.05 0.03 1 5 0.03 0.05 0.03 1 1 5 0.03 0.05					<1 <1 <0.03 <0.05 <0.05 <0.03 <1 <0.03 <1 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <0.05 <0.03 <0.05 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 <0.003 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40.03 40.03 40.03 40.03 40.03 40.03 40.03

Summary of Soil Analytical Results

Ī	ocation Code	NEL-ENV-BH027	NEL-ENV-BH028	NEL-ENV-BH028	NEL-ENV-BH028	NEL-ENV-BH029	NEL-ENV-BH029	NEL-ENV-BH030	NEL-ENV-BH030	NEL-ENV-BH030	NEL-ENV-BH030	NEL-ENV-BH031	NEL-ENV-BH031	NEL-ENV-BH031	NEL-ENV-BH032	NEL-ENV-BH032
Ī	epth	0.3 - 0.4	0 - 0.1	0.5 - 0.6	1.5 - 1.6	0 - 0.1	0.5 - 0.6	0 - 0.1	0 - 0.1	0.5 - 0.6	0.9 - 1	0 - 0.1	0.5 - 0.6	1.5 - 1.6	1 - 1.1	2 - 2.1
[ate	27/04/2018	24/04/2018	24/04/2018	24/04/2018	23/04/2018	23/04/2018	23/04/2018	23/04/2018	23/04/2018	23/04/2018	23/04/2018	23/04/2018	24/04/2018	1/06/2018	1/06/2018
Ī	leid ID	NEL-ENV-BH027_0	NEL-ENV-BH028_0	NEL-ENV-BH028_0	NEL-ENV-BH028_1.	NEL-ENV-BH029_0	NEL-ENV-BH029_0	NEL-ENV-BH030_0	QC3000	NEL-ENV-BH030_0	NEL-ENV-BH030_0.9-1.0	NEL-ENV-BH031_0.0-0.1	NEL-ENV-BH031_0.5-0.6	NEL-ENV-BH031_1.5-1.6	NEL-ENV-BH032_1.0-1.1	NEL-ENV-BH032_2.0-2.1
	ample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Ī	ab Report Number	EM1806989	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1807528	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1809010	EM1809010

Part			-				Lab Report Number	EW1000303	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1807528	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1809010	EM1809010
March Marc		Unit					Trigger for Leachate															
Part	Inorganics	-		on only of	on only o	0 0.00	1 County															
Part	Cyanide (Total)	mg/kg	- 1	10000	2500	50	160	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
March																						
March Marc		mg/kg	40	40000	10000	450	3000	230	300	490	700	370	410	340	330	430	480	420	210	550	400	290
Section Column																						
Second Column C	Arsenic	mg/kg	5					<5	6	5	7	8		5	13	7	7	- 6	<5		5	<5
Section 1985 1			1 0.5		100			<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1		<1	<0.5
The color		mg/kg		2000	500	1	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Column	Conner Conner	maka		20000	5000	100	4000	12	22	20	18	21	21	22	22	25	24	23	10	24	- 11	14
Section Sect				6000	1500																	16
March Column Co	Mercury			300		1	2	<0.1	< 0.1		< 0.1		< 0.1		< 0.1	<0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1
March Color Colo	Molybdenum		2	4000		40	100	<2	<2	<2	<2	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2
Teach Page 1		mg/kg	2				40	7	32	31	64	33	57	48	43	38	78	49	12	52	22	11
The color The	Selenium	mg/kg	5	200			20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
The color The				720			200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Teal		mg/kg						<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Table		mg/kg	5	140000	35000	200	6000	/	52	58	88	56	69	59	65	110	65	62	25	85	18	13
Teach		malka	0.2	16	4	1	2	-0.0	<0.0	-0.2	-0.2	-0.0	e0.2	-0.0	<0.2	<0.2	<0.2	-0.2	-0.2	20.0	×0.0	<0.2
Second S				10	-		-										<0.5					<0.5
The column White 15 Column Co		mg/kg						<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5
The color of the	Xylene (o)	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
## 15 Company of the	Xylene (m & p)	mg/kg							<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5
Foreign Fore		mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Section Property Section Property Section Property Section Property Section									1		1		1	1	1						1	
Fig.		mg/kg							<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10
Second S		mg/kg							<10	<10	<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10 <50
									<50 ×50	<50 <50	<50 ×50			<50 <50		<50 <50	<50 <50		<50 <50			<50 <50
First Color Angelows 100	F3 (>C16-C34 Fraction)	mg/kg						<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Color for all and Mail								<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
The state The		mg/kg						<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Contract Property Contract	TRH - NEPM 1999																					
Column		mg/kg		2600	650	100		-10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Column C									<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Fig. Control of the control of t	C15-C28 Fraction	mg/kg															<100					<100
## Description of the control of the		mg/kg		40000	40000	4000											<100					<100 <50
Description Property Company		mg/kg	50	40000	10000	1000		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<00	<50	<50	<50	<50
Prince		ma/ka	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	s0.5	<0.5	<0.5	<0.5	<0.5
American Color C	Pyrene	mg/kg	0.5					<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ministration Mini								< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Reconstructions	Acenaphthylene	mg/kg						< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Second proces Page 95 95 95 95 95 95 95 9	Anthracene																					<0.5
Berody-Navarimen		mg/kg		00	-		0.00	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5
Brown myle 65	Benzo(a) pyrene Benzo(haiak)fluoranthene	mg/kg mg/kg		20	5	1	0.02		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5		<0.5		<0.5	<0.5
Company Margin	Benzo(a h i)nerviene																					<0.5
Descriptions	Chrysene	mg/kg						< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5
Properties Pro	Dibenz(a,h)anthracene	mg/kg	0.5					< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5
InfoRmative mg/sg 0.5		mg/kg	0.5					< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5
Non-influence mg/mg 0.5	Fluorene	mg/kg						<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5		< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5
Prince P	Indeno(1,2,3-c,d)pyrene	mg/kg							<0.5	<0.5	< 0.5	<0.5	<0.5				<0.5		<0.5		<0.5	<0.5
PMIS (Sum of Nation Lab colored mg/sg 0.5 mg/sg 0.5 mg/sg	Naphthalene																					<0.5 <0.5
Table PMs (as Bat TCO)(past Col. Lab Cample) 0.5	PAHs (Sum of total) - Lab calc			400	100	20											<0.5				~0.0	~0.0
Total 8 PANS (as BAT TCO)(MAINT) Lab Calemylog 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.8																	<0.5				<0.5	<0.5
From the Parks (as Bar TEX) (but LOR) - Lab Color	Total 8 PAHs (as BaP TEQ)(half LOR) - Lab	Cal mg/kg						0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Phenois mg/s	Total 8 PAHs (as BaP TEQ)(full LOR) - Lab	Cald mg/kg																				1.2
SMM by S	Phenois																					
Principle prin	Phenois(halogenated) - Lab Calc						40															< 0.03
2.5.5 Prize Articophenol mg/kg 0.05 mg/kg			1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2.4-ferbiosphenic mykg 0.05			1				280	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2.4-deficiencyhened mg/kg 0.05																	<0.03					<0.03
2.4-distription 2.4-distri																						<0.05
2.4-demotyphenol mg/kg 1															_							<0.05
2.4-distriptioned mg/kg 5 mg/kg 0.03 mg/kg 0.03 mg/kg 0.05 mg		mg/kg ma/ka						<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
2.546/protection								×1	<5	×1	×1	<5	×1	51 25	×1	45	< 5	< 5	<5	- 51	×1	<1
23.45 23.46 Tetrachsophend mg/kg 0.05 wide																	<0.03					<0.03
2-detrophend mg/kg 0.03																						<0.05
2-methylanol mg/kg 1		mg/kg																				<0.03
2-description mg/kg 1		mg/kg						<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
45.Dirac-orgolopesy phenol mg/kg 5	2-nitrophenol	mg/kg	1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-throsphered mg/lg 0.03 -	4,6-Dinitro-o-cyclohexyl phenol							<5											<5			<5
Antophenol mp/kg 5	4-chloro-3-methylphenol		0.03						< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03
Pentatricophenol mg/kg 0.2	4-nitrophenol	mg/kg							<5	<5	<5	<5			<5		<5	<5	<5	<5	<5	<5
		mg/kg	0.2					< 0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2
	Phenol		1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenoi folial Happensted mg/kg 0.03 40.0	Phenois (Total Halogenated)	mg/kg						< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-
Phende (Total Non Halogenated) mg/kg 1 c1 c1 c1 c1 c1 c1 c1	Prientis (Total Non Halogenated)	mg/kg	1 1					<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	



Appendix J Table 3 Summary of Soil Analytical Results

Ī	ocation Code	NEL-ENV-BH032	NEL-LFB01	NEL-LFB01	NEL-LFB01	NEL-LFB01	NEL-LFB01	NEL-LFB01	NEL-LFB02	NEL-LFB02	NEL-LFB02	NEL-LFB02	NEL-LFB02	NEL-LFB02	NEL-LFB02	NEL-LFB02
	Depth	4 - 4.1	0.1 - 0.2	0.5 - 0.6	1 - 1.1	3 - 3.1	4 - 4.1	5 - 5.1	0.1 - 0.2	0.5 - 0.6	1 - 1.1	2 - 2.1	3 - 3.1	3 - 3.1	4 - 4.1	5 - 5.1
1	Date	1/06/2018	10/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	10/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018
F	leld ID	NEL-ENV-BH032_4.0-4.1	NEL-LFB01_0.1m	NEL-LFB01_0.5m	NEL-LFB01_1.0m	NEL-LFB01_3.0m	NEL-LFB01_4.0m	NEL-LFB01_5.0m	NEL-LFB02_0.1m	NEL-LFB02_0.5m	NEL-LFB02_1.0m	NEL-LFB02_2.0m	NEL-LFB02_3.0m	QC3003	NEL-LFB02_4.0m	NEL-LFB02_5.0m
8	Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal
L	ab Report Number	EM1809010	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724

Major Iona	ng/kg			EPA Victoria INVRG 621 Category C 2200 100000 500 100 500 500 75 1000 3000 500 4	EPA Vidoria IWRO 621 Olean Fill 50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EPA Victoria IWRG 621 Trigger for Leachais Testing 160 3000 14 4 100 4000 200 20 20 200 6000	<1 290 290 45 41 41 41 41 41 41 41 41 41 41 41 41 41		6 <1 - - - 32 84 0.1	<1 290 <5 <1 <0.5 • 12 15	<1 300 <5 <1 <0.5	- <5 <1 -	- <5 <1 -	7 <1 -		<5 <1 ·	<1 390 10 2 <0.5	<1 400 6 <1 <0.5 -	<1 380 7 <1 <0.5 - 13 18 16 6	<5 <1 - 37 12	
	ng/kg	5 1 0.5 5 5 5 0.1 2 2 5 5 5 0.5 0.5 0.5 0.5 0.5	2000 10000 2000 2000 2000 4000 2000 4000 2000 4000 2000 4000 2000 2000 2000 4000 2000 7200 72	2500 2500 10000 500 1000 500 100 500 1500 75 1000 3000 50 150 50 150 50 50 50 50	50 450 450 20 3 1 1 100 300 1 1 40 60 10 10 50	Trigger for Leachasts Testing 160 3000 14 4 100 4000 20 21 100 40 20 20 200	<5 <1 <0.5 - 9 10 <0.1 <2 8 <5	19 47 <0.1 <2	<1 - 32 84 0.1 <2	<5 <1 <0.5 · · · · · · · · · · · · · · · · · · ·	<5 <1 <0.5 -	- - <5 <1 -	- - <5 <1 - 25	<1	<5 <1	-	10 2 <0.5	6 <1 <0.5	7 <1 <0.5 - 13	37 12	12
	ng/kg	5 1 0.5 5 5 5 0.1 2 2 5 5 5 0.5 0.5 0.5 0.5 0.5	2000 10000 2000 2000 2000 4000 2000 4000 2000 4000 2000 4000 2000 2000 2000 4000 2000 7200 72	2500 2500 10000 500 1000 500 100 500 1500 75 1000 3000 50 150 50 150 50 50 50 50	50 450 450 20 3 1 1 100 300 1 1 40 60 10 10 50	Testing 160 3000 14 4 100 4000 20 2 100 40 20 20 20 20 20 20 20 20	<5 <1 <0.5 - 9 10 <0.1 <2 8 <5	19 47 <0.1 <2	<1 - 32 84 0.1 <2	<5 <1 <0.5 · · · · · · · · · · · · · · · · · · ·	<5 <1 <0.5 -	- - <5 <1 -	- <5 <1 - 25	<1	- <5 <1 -	-	10 2 <0.5	6 <1 <0.5	7 <1 <0.5 - 13	37 12	12
Cyanide (Toda) (mg) Appared (Toda) (mg) Phoroide (mg) Metha Annered (mg) Annered (mg) Annered (mg) Annered (mg) Annered (mg) Annered (mg) Commission (hexanised) India Metha ngikg	1 40 5 1 0.5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	10000 40000 2000 400 2000 2000 2000 6000 300 4006 12000 720 140000	2500 10000 500 100 500 500 1500 1500 500 1500 50 1000 50 1000 50 5	50 450 20 3 1 100 300 1 40 60 10 10 10	160 3000 14 4 100 4000 20 2 100 40 20 20 20 20 20 20 200	<5 <1 <0.5 - 9 10 <0.1 <2 8 <5	19 47 <0.1 <2	<1 - 32 84 0.1 <2	<5 <1 <0.5 · · · · · · · · · · · · · · · · · · ·	<5 <1 <0.5 -	- <5 <1 -	- <5 <1 - 25	<1		-	10 2 <0.5	6 <1 <0.5	7 <1 <0.5 - 13	37 12	12	
Major Iona	ngikg	5 1 0.5 2 5 0.1 2 5 0.1 2 5 0.1 2 5 5 0.1 2 5 5 0.5 2 5 0.1 2 5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 5 0.5 0.	40000 2000 400 2000 2000 20000 6000 300 4000 12000 200 720	10000 500 100 500 5000 1500 75 1000 500 5	450 20 3 1 100 300 1 40 60 10 10 50	3000 14 4 100 4000 20 2 100 40 20 20 20 20	<5 <1 <0.5 - 9 10 <0.1 <2 8 <5	19 47 <0.1 <2	<1 - 32 84 0.1 <2	<5 <1 <0.5 · · · · · · · · · · · · · · · · · · ·	<5 <1 <0.5 -	- <5 <1 -	- <5 <1 - 25	<1	- <5 <1	-	10 2 <0.5	6 <1 <0.5	7 <1 <0.5 - 13	37 12	12
Fluoride mgr	ngikg	5 1 0.5 2 5 5 0.1 2 2 5 2 5 5 0.1 2 2 5 5 0.1 2 0.5 5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	2000 400 2000 2000 2000 6000 300 4000 12000 200 720	500 100 500 500 1500 75 1000 3000 50 180	20 3 1 1 100 300 1 40 60 10 10	14 4 100 20 2 2 100 40 40 20 20 20 20 20	<5 <1 <0.5 - 9 10 <0.1 <2 8 <5	19 47 <0.1 <2	<1 - 32 84 0.1 <2	<5 <1 <0.5 · · · · · · · · · · · · · · · · · · ·	<5 <1 <0.5 -	<5 <1 -	<5 <1 -	<1	<5 <1 ·	-	10 2 <0.5	6 <1 <0.5	7 <1 <0.5 - 13	37 12	12
	ngikg	5 1 0.5 2 5 5 0.1 2 2 5 2 5 5 0.1 2 2 5 5 0.1 2 0.5 5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0	2000 400 2000 2000 2000 6000 300 4000 12000 200 720	500 100 500 500 1500 75 1000 3000 50 180	20 3 1 1 100 300 1 40 60 10 10	14 4 100 20 2 2 100 40 40 20 20 20 20 20	<5 <1 <0.5 - 9 10 <0.1 <2 8 <5	19 47 <0.1 <2	<1 - 32 84 0.1 <2	<5 <1 <0.5 · · · · · · · · · · · · · · · · · · ·	<5 <1 <0.5 -	<5 <1 -	<5 <1 -	<1	<5 <1	-	10 2 <0.5	6 <1 <0.5	7 <1 <0.5 - 13	37 12	12
Arsenic mg Cadmium mg Cadmium mg Chromaum (hezavalent) mg Chromaum (hezavalent) mg Chromaum (hezavalent) mg Chromaum (hezavalent) mg Chromaum mg Lead mg Mercudenum mg Mercudenum mg Mercudenum mg Mercudenum mg Mercudenum mg Mercudenum mg Selentum mg Th Th mg Th Th mg Th Th Th Th Th Th Th Th	ngikg	1 0.5 2 5 5 0.1 2 2 5 5 5 0.1 2 5 5 5 5 0.1 2 5 5 5 5 5 0.1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	400 2000 2000 6000 300 4000 12000 200 720 140000	100 500 5000 1500 75 1000 3000 50 180	3 1 100 300 1 40 60 10 10	4 100 4000 20 2 100 40 20 20 20	- 9 10 <0.1 <2 8 <5	19 47 <0.1 <2	<1 - 32 84 0.1 <2	<0.5 - 12 15	<0.5 - 9	<5 <1 -	<5 <1 - 25	<1	<5 <1 -	-	<0.5	<1 <0.5	<1 <0.5	37 12	12
Cadmium	ngikg	0.5 2 5 5 0.1 2 2 5 2 5 5 0.2 0.2 0.5 0.5 0.5	400 2000 2000 6000 300 4000 12000 200 720 140000	100 500 5000 1500 75 1000 3000 50 180	3 1 100 300 1 40 60 10 10	100 4000 20 2 100 40 20 20	- 9 10 <0.1 <2 8 <5	19 47 <0.1 <2	<1 - 32 84 0.1 <2	<0.5 - 12 15	<0.5 - 9	<1 -	<1 - 25	<1 - 24	् रा	-	<0.5	<1 <0.5	<0.5	37 12	12
Chromium (hexavalent) mg	ngikg	2 5 5 0.1 2 2 5 5 2 5 5 6 0.2 0.5 0.5 0.5	20000 6000 300 4000 12000 200 720	5000 1500 75 1000 3000 50 180	1 100 300 1 40 60 10 10	4000 20 2 100 40 20 200	- 9 10 <0.1 <2 8 <5	19 47 <0.1 <2	84 0.1 <2	12 15	9	-	25	24	-	-	<0.5	-	- 13	12	12
Chroman (III+VI) reging Chroman (III+VI) reging Copper Copper reging Copper C	ngikg	5 5 0.1 2 2 5 2 5 5 0.2 0.5 0.5 0.5	6000 300 4000 12000 200 720	1500 75 1000 3000 50 180	300 1 40 60 10 10	20 2 100 40 20 200	10 <0.1 <2 8 <5	19 47 <0.1 <2	84 0.1 <2	15		-	25	24	-	-	- 44	13		12	12
Lead	ngikg	5 0.1 2 2 5 2 5 5 0.2 0.5 0.5 0.5	6000 300 4000 12000 200 720	1500 75 1000 3000 50 180	300 1 40 60 10 10	20 2 100 40 20 200	10 <0.1 <2 8 <5	47 <0.1 <2	84 0.1 <2	15							44	13			
Mercusy mg mg	ngikg ngikg ngikg ngikg ngikg ngikg ngikg ngikg ngikg ngikg ngikg	0.1 2 2 5 2 5 5 5 5 0.2 0.5 0.5 0.5	300 4000 12000 200 720	75 1000 3000 50 180 500	1 40 60 10 10	2 100 40 20 200	<0.1 <2 8 <5	<0.1	0.1 <2			11	10	15	19	10			16	11	
Molybdreum mg	ngikg	2 2 5 2 5 5 5 0.2 0.5 0.5 0.5	4000 12000 200 720 140000	3000 50 180 500	60 10 10 50	40 20 200	<2 8 <5	<2	<2		11	8	18	30	20	14	238	12	10		12
Nickel 1919	ng/kg	2 5 2 5 5 0.2 0.5 0.5 0.5	12000 200 720 140000	3000 50 180 500	60 10 10 50	40 20 200	<5	23	*2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1
Selentum 19/15	ng/kg	5 2 5 5 5 0.2 0.5 0.5 0.5	200 720 140000	50 180 500	10 10 50	20 200	<5	20	24	41	14	17	24	16	34	15	27	20	20	19	18
Silver 19/15	ng/kg	5 5 0.2 0.5 0.5 0.5 0.5	720 140000	500	10 50		<2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Zinc mg- Bezczene mg- Tolluene mg- Tolluene mg- Ellytheracene mg- Tolluene mg- Ellytheracene mg- Sylene (n0 mg- Sylene (n6 ± n) mg- Sylene (n6 ± n) mg- TRH - NRPH 2013 mg- TRH - NRPH 2013 mg- TGC-10 Fraction	ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg	0.2 0.5 0.5 0.5 0.5		500 35000 4		6000		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
#EDN Benzene mg/ Tolume mg/ Tolume mg/ Emybenzene mg/ System (0, 0) mg/ System (0, 0) mg/ System (0, 0) mg/ System (0, 0) mg/ TRH - NEPM 2018 mg/	ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg	0.2 0.5 0.5 0.5 0.5		35000	200	6000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	56	<5	<5	<5	<5
Benzere	ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg	0.5 0.5 0.5 0.5	16	4	1		12	111	188	28	24	33	51	58	57	34	2,490	45	41	44	61
Tolusene mgmi Tolusene mgmi Tolusene mgmi Tylene (o) mgmi Tylene (o) mgmi Tylene (m & p) Tylene (m & p) Tylene (m & p) Tylene Total TRH - NEPPA 2013 FFI (CS-C10 mmas STEXN) Tylene (mgmi Tylene (mgm	ng/kg ng/kg ng/kg ng/kg ng/kg ng/kg	0.5 0.5 0.5 0.5	16	4	1	2															
Enylutenzene	ng/kg ng/kg ng/kg ng/kg ng/kg	0.5 0.5 0.5				2	<0.2	-	-	<0.2	<0.2	-	-	-	-		<0.2	<0.2	<0.2	_	
Xylene (o) mgn Xylene (o) mgn Xylene (m & p) mgn	ng/kg ng/kg ng/kg ng/kg	0.5					<0.5		-	<0.5 <0.5	< 0.5		- :		-	-	<0.5	<0.5	<0.5		- : -
Xylene (m & p) mg	ng/kg ng/kg ng/kg	0.5					<0.5	-	-	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	-	+
Xylene Total mgn ThH - NEPM 2013 mgn ThH - NEPM 2013 mgn F1 (CG-C10 minus BTEXN) mgn F2 (CG-C10 minus Naphthalane) mgn F2 (CG-C10 C16 minus Naphthalane) mgn F3 (CG-C16 C34 Fraction) mgn F3 (CG-C16 C34 Fraction) mgn THH - NEPM 2013 mgn TG-C16 C34 Fraction mgn CG-C3 Fraction mgn mgn THH - NEPM 2013 mgn ng/kg ng/kg ng/kg						<0.5	-	-	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5		<u> </u>	
TRH - NEPM 2019 mg/	ng/kg ng/kg						<0.5	-	-	<0.5	<0.5		-			-	<0.5	<0.5	<0.5	-	1 -
CS-010 Fraction mg/F2 (>C10-C16 Fraction mg/F2 (>C10-C16 minus Naphthalene) mg/F2 (>C10-C16 Fraction mg/F3 (>C10-C16 Fraction mg/F3 (>C10-C16 Fraction) mg/F4 (>C30-C40 (Sum of Total) mg/F4 (>C30-C40 (Sum of Total) mg/F4 (>C10-C40 (Sum of Total) mg/F4 (>C10-C40 (Sum of Total) mg/F4 (>C10-C40 (Sum of Total) mg/F4 (>C10-C16 Fraction mg/F4 (>C16	ng/kg																				
F2 C-10-C16 minus Naphthalene mg/s C-10-C16 Fraction mg/s F3 C-10-C34 Fraction mg/s F4 C-34 Fraction mg/s F4 C-34-C40 Fraction mg/s C-10-C40 [Sum of Total) mg/s TRH - NEPM 1000 C-6-C-9 Fraction mg/s C-10-C14 Fraction mg/s	ng/kg	10					<10	-	-	<10	<10	-	-	-	-	-	<10	<10	<10		-
SC10-C16 Fraction mg/f F3 (PC16-C24 Fraction) mg/g F4 (PC34-C40 Fraction) mg/f SC10-C40 (Sum of Total) mg/f TRH - NEPM 1999 mg/f C8-C9 Fraction mg/f C10-C14 Fraction mg/g		10					<10 <50	-	-	<10	<10 <50	-	-	-	-	-	<10	<10	<10 <50	-	
F3 (>C16-C34 Fraction) mg/ F4 (>C34-C40 Fraction) mg/ >C10-C40 (Sum of Total) mg/ TRH - NEPM 1999 C6-C9 Fraction mg/ C10-C14 Fraction mg/		50 50					<50 <50	-	-	<50 <50	<50 <50	-	-	-	-	-	<50 <50	<50 <50	<50 <50	-	
F4 (>C34-C40 Fraction) mg/l >C10-C40 (Sum of Total) mg/l TRH - NEPM 1999 C8-C9 Fraction mg/l C10-C14 Fraction mg/l		100					<100	-	-	<100	<100	-	-	-	-		<100	<100 <100	<100		
>C10-C40 (Sum of Total) mg/ TRH - NEPM 1999 C8-C9 Fraction mg/ C10-C14 Fraction mg/	ng/kg	100					<100	-	-	<100	<100				-	-	<100	<100	<100		+
TRH - NEPM 1999 C6-C9 Fraction mg/l C10-C14 Fraction mg/l	ng/kg	50					<50	-	-	<50	<50	-	-	-	-	-	<50	<50	<50	-	-
C10-C14 Fraction mg/l																					1
	ng/kg	10	2600	650	100		<10	-	-	<10	<10	-	-	-	-	-	<10	<10	<10	-	_
	ng/kg	50					<50	-	-	<50	<50	-	-	-	-	-	<50	<50	<50	-	-
	ng/kg ng/kg	100					<100 <100	-	-	<100 <100	<100 <100		-		-	-	<100 <100	<100	<100 <100	-	
	ng/kg ng/kg	50	40000	10000	1000		<50		-	<50	<50				-		<50	<50	<50		
PAHs	iging	30	40000	10000	1000		V30			V30	-30						V-30	-50	~30		+
	ng/kg	0.5					<0.5	-	-	< 0.5	< 0.5		-		-	-	<0.5	<0.5	< 0.5	-	-
Pyrene mg/	ng/kg	0.5					<0.5	-	-	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	-	
	ng/kg	0.5					<0.5	-	-	<0.5	< 0.5	-	-	-	-	-	<0.5	<0.5	<0.5	-	-
Acenaphthylene mg/	ng/kg	0.5					<0.5	-	-	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	-	-
	ng/kg	0.5					<0.5 <0.5	-	-	<0.5 <0.5	<0.5 <0.5	-	-	-	-	-	<0.5	<0.5	<0.5	-	
	ng/kg ng/kg	0.5	20	5	1	0.02	<0.5 e0.5	-	-	<0.5	<0.5	-	-	-	-		<0.5	<0.5 c0.5	<0.5		
Benzo(b+j+k)fluoranthene mg/	ng/kg	0.5	20			0.02	<0.5			<0.5	<0.5					-	<0.5	<0.5	<0.5	-	+-:-
	ng/kg	0.5					<0.5		-	<0.5	<0.5				-	-	<0.5	<0.5	<0.5		+
Chrysene mg/	ng/kg	0.5					<0.5	-	-	<0.5	<0.5	-	-	-	-	-	< 0.5	<0.5	<0.5	-	-
	ng/kg	0.5					<0.5	-	-	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	-	
	ng/kg	0.5					< 0.5	-	-	< 0.5	<0.5	-	-	-	-	-	< 0.5	< 0.5	<0.5	-	
Fluorene mg/	ng/kg	0.5					<0.5	-	-	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	-	-
Indeno(1,2,3-c,d)pyrene mg/l Naphthalene mg/l	ng/kg	0.5 0.5					<0.5	-	-	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5 <0.5	<0.5	-	+
	ng/kg ng/kg	0.5					<0.5 <0.5			<0.5	<0.5				-	-	<0.5 <0.5	<0.5	<0.5		
	ng/kg	0.5	400	100	20			-	-	-	-						-	-	-		-
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab Ca mg/		0.5					<0.5	-	-	<0.5	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	-	-
Total 8 PAHs (as BaP TEQ)(half LOR) - Lab Cal mg/l	ng/kg	0.5					0.6	-	-	0.6	0.6	-	-	-	-	-	0.6	0.6	0.6	-	-
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab Cald mg/	ng/kg	0.5					1.2	-	-	1.2	1.2	-	-	-	-	-	1.2	1.2	1.2	-	
Phenois		\vdash																			
	ng/kg	0.03				40	<0.03	-	-	<1	<1	-	-	-	-	-	<1	<1	<1	-	
	ng/kg	1				280	<1	-	-	<1	<1	-	-	-	-	-	<1	<1	<1	-	
	ng/kg ng/kg	0.03				200	<1		-	<0.03 ±0.03	<0.03						<0.03	*0.03	<0.03		
	ng/kg ng/kg	0.05					<0.05			<0.05	<0.05				- :		<0.05	<0.05	<0.05		+
	ng/kg ng/kg	0.05					<0.05	-	-	<0.05	<0.05				-	-	<0.05	<0.05	<0.05	-	
	ng/kg	0.03					<0.03	-		<0.03	< 0.03		-		-	-	<0.03	<0.03	<0.03	-	+
	ng/kg	1					<1	-	-	<1	<1		-		-		<1	<1	<1		-
	ng/kg	5					<5	-	-	<5	<5	-	-	-	-	-	<5	<5	<5	-	T -
	ng/kg	0.03					< 0.03	-	-	<0.03	< 0.03	-	-	-	-	-	<0.03	<0.03	<0.03	-	-
2,3,4,5 & 2,3,4,6-Tetrachlorophenol mg/l	ng/kg	0.05					< 0.05	-	-	<0.05	< 0.05	-	-	-			<0.05	<0.05	<0.05	-	
2-chlorophenol mg/l	ng/kg	0.03					< 0.03	-	-	<0.03	< 0.03	-	-	-	-	-	<0.03	< 0.03	<0.03		-
2-methylphenol mg/	ng/kg	1					<1	-	-	<1	<1	-	-	-	-	-	<1	<1	<1	-	
	ng/kg	1					<1	-	-	<1	<1	-	-	-	-		<1	<1	<1		
4,6-Dinitro-o-cyclohexyl phenol mg/l	ng/kg	5					<5	-	-	<5	<5	-	-	-	-	-	<5	<5	<5	-	
4-chloro-3-methylphenol mg/l 4-nitrophenol mg/l	ng/kg ng/kg	0.03					<0.03 <5	-	-	<0.03	<0.03	-	-	-	-	-	<0.03	<0.03	<0.03	-	
	ng/kg ng/kg	0.2					<0.2		-	<0.2	<0.2	-	-	-	-	-	<0.2	<0.2	<0.2	-	
	ng/kg	1					<1			<1	<1		-		-	-	<1	<1	<1	-	+
Phenois (Total Halogenated) mg/l	ng/kg	0.03					-	-	-	-	-									-	
	ng/kg	- 1												-	- 1	-	-	-			



Appendix J Table 3 Summary of Soil Analytical Results

Location C	Code	NEL-LFB03	NEL-LFB04	NEL-LFB04	NEL-LFB04	NEL-LFB04	NEL-LFB04	NEL-LFB04						
Depth		0.1 - 0.2	0.5 - 0.6	1 - 1.1	2 - 2.1	3 - 3.1	4 - 4.1	5 - 5.1	0.1 - 0.2	0.5 - 0.6	2 - 2.1	3 - 3.1	4 - 4.1	5 - 5.1
Date		10/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	10/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018
Fleid ID		NEL-LFB03_0.1m	NEL-LFB03_0.5m	NEL-LFB03_1.0m	NEL-LFB03_2.0m	NEL-LFB03_3.0m	NEL-LFB03_4.0m	NEL-LFB03_5.0m	NEL-LFB04_0.1m	NEL-LFB04_0.5m	NEL-LFB04_2.0m	NEL-LFB04_3.0m	NEL-LFB04_4.0m	NEL-LFB04_5.0m
Sample Ty	уре	Normal												
Lab Repor	rt Number	EM1811150	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724

			1			Lab Report Number	EM1811150	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724
	Unit	EQL		EPA Victoria IWRG 621 Category C	EPA Victoria IWRG 621 Clean Fill	EPA Victoria IWRG 621 Trigger for Leachate Teeting													
Inorganics Cyanide (Total)																			
Major Ions	mg/kg	1	10000	2500	50	160	-	-	<1	<1	-	-	-	-	<1	<1			
Fluoride	mg/kg	40	40000	10000	450	3000			380	340				_	320	430	-	+	
Metals	Inging		40000		400	0000			500	540					020	400			
Arsenic	mg/kg	5	2000	500	20	14	<5	9	5	59	<5	<5	<5	<5	<5	<5	<5	<5	7
Cadmium	mg/kg	1	400	100	3	4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium (hexavalent)	mg/kg	0.5	2000	500	1	100	-	-	< 0.5	<0.5	-	-	-	-	< 0.5	<0.5	-	-	-
Chromium (III+VI) Copper	mg/kg	2	20000	5000	100	4000	24 14	14	14	24	14	26 10	31 9	23 14	10	11	12	11	28
Lead	mg/kg mg/kg	5	6000	1500	300	20	23	27	48	82	10	15	10	25	50	12	12	9	14
Mercury	mg/kg	0.1	300	75	1	2	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	5.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	2	4000	1000	40	100	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Nickel	mg/kg	2	12000	3000	60	40	17	26	21	34	17	17	14	13	16	16	17	16	16
Selenium	mg/kg	5	200	50	10	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Silver	mg/kg	2	720	180	10	200	<2	<2	<2	<2 <5	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tin Zinc	mg/kg mg/kg	5	140000	500 35000	50 200	6000	<5 48	35	<5 504	64	<5 24	<5 26	36	60	<5 51	<5 26	<5 32	34	<5 40
BTEXN	ilig/kg	3	140000	30000	200	0000	40	30	304	04	24	20	30	- 00	51	20	32	34	40
Benzene	mg/kg	0.2	16	4	1	2	-	-	< 0.2	< 0.2		-	-		< 0.2	< 0.2		-	-
Toluene	mg/kg	0.5						-	<0.5	<0.5	-	-		-	< 0.5	<0.5	-	-	-
Ethylbenzene	mg/kg	0.5					-	-	<0.5	<0.5	-	-	-	-	<0.5	<0.5	-	-	-
Xylene (o)	mg/kg	0.5					-	-	<0.5	<0.5	-	-	-	-	<0.5	<0.5	-		
Xylene (m & p) Xylene Total	mg/kg mg/kg	0.5					-	-	<0.5	<0.5		+		1 -	<0.5	<0.5	+		+
TRH - NEPM 2013	grng	0.3							~0.0	~0.3		+ -	+	+	~0.0	~0.0	+ -	+	+
F1 (C6-C10 minus BTEXN)	mg/kg	10					-	-	<10	<10	-	-	-	-	<10	<10	-	-	-
C6-C10 Fraction	mg/kg	10					-	-	<10	<10	-	-		-	<10	<10	-	-	-
F2 (>C10-C16 minus Naphthalene)	mg/kg	50					-	-	<50	<50	-	-		-	<50	<50	-		-
>C10-C16 Fraction	mg/kg	50					-	-	<50	<50	-	-	-	-	<50	<50	-		-
F3 (>C16-C34 Fraction) F4 (>C34-C40 Fraction)	mg/kg mg/kg	100					-	-	<100 <100	220 120	-	-	-	-	<100 <100	<100 <100	-	+	+
>C10-C40 (Sum of Total)	mg/kg	50					-		<50	340	- :	-	1 :	- :	<50	<50	+ :	-	
TRH - NEPM 1999																		_	_
C6-C9 Fraction	mg/kg	10	2600	650	100		-	-	<10	<10	-	-		-	<10	<10	-	-	-
C10-C14 Fraction	mg/kg	50					-	-	<50	<50	-	-	-	-	<50	<50			-
C15-C28 Fraction	mg/kg	100					-	-	<100	<100	-	-	-	-	<100	<100	-	-	-
C29-C36 Fraction C10-C36 (Sum of Total)	mg/kg mg/kg	100 50	40000	10000	1000		-	-	<100 <50	190 190	-	-	-	-	<100 <50	<100 <50	-		-
PAHs	Ilig/kg	50	40000	10000	1000			-	<50	190	-	-	-	-	<5U	<50	-		
Sum of polycyclic aromatic hydrocarbons	mg/kg	0.5					-	-	< 0.5	<0.5	-	-	-	-	< 0.5	< 0.5			-
Pyrene	mg/kg	0.5					-	-	<0.5	<0.5	-	-	-	-	<0.5	<0.5	-	-	-
Acenaphthene	mg/kg	0.5					-	-	<0.5	<0.5	-	-	-	-	< 0.5	< 0.5	-		-
Acenaphthylene	mg/kg	0.5					-	-	<0.5	<0.5	-	-	-	-	<0.5	<0.5	-		-
Anthracene Benz(a)anthracene	mg/kg	0.5					-	-	<0.5 <0.5	<0.5 <0.5	-	-	-	-	<0.5 <0.5	<0.5	-		
	mg/kg mg/kg	0.5		5	1	0.02		-	<0.5	<0.5	-	-	-	-	<0.5	<0.5	-		
Benzo(a) pyrene Benzo(b+j+k)fluoranthene	mg/kg	0.5	20	-		0.02		-	<0.5	<0.5	-	-		-	<0.5	<0.5			_
Benzo(g,h,i)perylene	mg/kg	0.5					-	-	<0.5	<0.5	-	-	-	-	< 0.5	<0.5	-		-
Chrysene	mg/kg	0.5					-	-	<0.5	<0.5	-	-	-	-	<0.5	<0.5			-
Dibenz(a,h)anthracene	mg/kg	0.5					-	-	<0.5	<0.5	-	-	-	-	<0.5	<0.5	-	-	-
Fluoranthene	mg/kg	0.5					-	-	<0.5	<0.5	-	-	-	-	<0.5	<0.5	-		-
Fluorene Indeno(1,2,3-c,d)pyrene	mg/kg mg/kg	0.5					-	-	<0.5	<0.5	-	-	-	-	<0.5 <0.5	<0.5	-		
Naphthalene	mg/kg	0.5					-	-	<0.5	<0.5		-	-		<0.5	<0.5		-	-
Phenanthrene	mg/kg	0.5							<0.5	<0.5	-		-		<0.5	<0.5	-		
PAHs (Sum of total) - Lab calc	mg/kg	0.5		100	20		-	-	-	-	-	-	-	-	-	-	-		-
Total 8 PAHs (as BaP TEQ)(zero LOR) - La		0.5					-	-	<0.5	<0.5	-	-	-	-	<0.5	<0.5	-		-
Total 8 PAHs (as BaP TEQ)(half LOR) - La Total 8 PAHs (as BaP TEQ)(full LOR) - Lat	ab Calimg/kg	0.5					-	-	0.6 1.2	0.6 1.2	1	1	-	1	0.6 1.2	0.6 1.2	1	-	-
Phenois	uo odiumyny	0.3							1.4	1.4		1	+ -	1	1.2	1.4	+ -	+	+
Phenois(halogenated) - Lab Calc	mg/kg	0.03				40		-	<1	<1	-	-	-	-	<1	<1	-	-	-
3/4-Methylphenol (m/p-cresol)	mg/kg	1						-	<1	<1	-	-		-	<1	<1	-		
Phenois (non-halogenated) - Lab Calc	mg/kg	1				280	-		<0.03	<0.03	-	-	-	-	< 0.03	<0.03	-		
2,3,5,6-Tetrachlorophenol	mg/kg	0.03					-	-	<0.03	<0.03	-	-	-	-	<0.03	<0.03	-	_	-
2,4,5-trichlorophenol	mg/kg	0.05					-	-	<0.05	<0.05	-	-	-	-	< 0.05	< 0.05	-	-	-
2,4,6-trichlorophenol	mg/kg	0.05						-	<0.05	<0.05	-	-	-	-	<0.05	<0.05	-	-	-
2,4-dichlorophenol 2,4-dimethylphenol	mg/kg	0.03					-	-	<0.03	<0.03		-	+ -	-	<0.03	<0.03	-	-	-
2,4-dimethylphenol 2,4-dinitrophenol	mg/kg mg/kg	5					-		<1	<1	-	1	-	+ - :	<5	<5	+ - :	+	+
2,6-dichlorophenol	mg/kg mg/kg	0.03						-	<0.03	<0.03	-	1	-	1	<0.03	<0.03	+ :	+ :-	+-:-
2,3,4,5 & 2,3,4,6-Tetrachlorophenol	mg/kg	0.05							<0.05	<0.05			-		<0.05	<0.05			+ -
	mg/kg	0.03							<0.03	<0.03	-	-	-	-	<0.03	<0.03		+ -	
2-chlorophenol							-	-	<1	<1	-	-	-	-	<1	<1	-	-	-
2-chlorophenol 2-methylphenol	mg/kg	1							<1	<1		-	-	-	<1	<1			
2-methylphenol 2-nitrophenol	mg/kg mg/kg	1						-											
2-methylphenol 2-nitrophenol 4,6-Dinitro-o-cyclohexyl phenol	mg/kg mg/kg mg/kg	1 1 5							<5	<5	-	-	-	-	<5	<5			- :
2-methylphenol 2-nitrophenol 4,6-Dinitro-o-cyclohexyl phenol 4-chloro-3-methylphenol	mg/kg mg/kg mg/kg mg/kg	1 1 5 0.03						-	<5 <0.03	<5 <0.03	-		-		<5 <0.03	<5 <0.03			
2-methylphenol 2-nitrophenol 4.6-Dinitro-o-cyclohexyl phenol 4-chloro-3-methylphenol 4-nitrophenol	mg/kg mg/kg mg/kg mg/kg mg/kg	1 1 5 0.03						-	<5 <0.03 <5	<5 <0.03 <5	-	-	-	-	<5 <0.03 <5	<5 <0.03 <5	-		
2-methylphenol 2-nitrophenol 2-nitrophenol 4-6-Dinitro-o-cyclohexyl phenol 4-chloro-3-methylphenol 4-nitrophenol Pentachlorophenol	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1 1 5 0.03 5 0.2						-	<5 <0.03	<5 <0.03 <5 <0.2	-	-			<5 <0.03 <5 <0.2	<5 <0.03 <5 <0.2	-		
2-methylphenol 2-nitrophenol 4.6-Dinitro-o-cyclohexyl phenol 4-chloro-3-methylphenol 4-nitrophenol	mg/kg mg/kg mg/kg mg/kg mg/kg	1 1 5 0.03						-	<5 <0.03 <5	<5 <0.03 <5		-		-	<5 <0.03 <5	<5 <0.03 <5		-	

Summary of Soil Analytical Results

Location Code	NEL-LFB05	NEL-LFB06	NEL-LFB06	NEL-LFB06	NEL-LFB06	NEL-LFB06	NEL-LFB06	NEL-LFB07	NEL-LFB07	NEL-LFB07						
Depth	0.1 - 0.2	0.5 - 0.6	1 - 1.1	2 - 2.1	3 - 3.1	4 - 4.1	5 - 5.1	0.1 - 0.2	0.5 - 0.6	2 - 2.1	3 - 3.1	4 - 4.1	5 - 5.1	0.1 - 0.2	0.5 - 0.6	2 - 2.1
Date	10/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018
Field ID	NEL-LFB05_0.1m	NEL-LFB05_0.5m	NEL-LFB05_1.0m	NEL-LFB05_2.0n	NEL-LFB05_3.0m	NEL-LFB05_4.0m	NEL-LFB05_5.0m	NEL-LFB06_0.1m	NEL-LFB06_0.5m	NEL-LFB06_2.0m	NEL-LFB06_3.0m	NEL-LFB06_4.0m	NEL-LFB06_5.0m	NEL-LFB07_0.1m	NEL-LFB07_0.5m	NEL-LFB07_2.0m
Sample Type	Normal															
Lab Report Number	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724	EM1811724	EM1811150	EM1811150

See 1. 1							Lab Report Number		EM1811150	EM1811150	EM1811150	EM1811150	EM1811/24	EM1811/24	EM1811150	EM1811150	EM1811150	EM1811150	EM1811/24	EM1811/24	EM1811/24	EM1811150	EM1811150
Part		link.		EPA Victoria IWRG	EPA Victoria IWRG	EPA Victoria IWRG	Trigger for Leachate																
Fig. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	nomanica	Unit	EQL	621 Category B	621 Category C	621 Clean Fill	I esting			1					1		1	1	1	1	1	1	1
Fig. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Cyanide (Total)	mg/kg	1	10000	2500	50	160		-	<1	-	<1	-	-	-	<1	<1	-			-	1	<1
The column	Major Ions																						
Mathematical Math	Fluoride	mg/kg	40	40000	10000	450	3000	-	-	260	-	360	-	-	-	520	260	-	-	-	-	390	290
Series 1919 1 1 200 1 1 200 1 1 200 1 1 200 1 1 200 1 1 200 1 1 200 1 1 200 1 1 200 1 1 200 1 1 200 1 1 200 1 1 200 1 1 200 1 200 1 1 200 1 1 200 1 1 200 1 1 200 1 1 200 1 20	Metals																						
Separation 196 197 198 198 198 199 199 199 199 199 199 199	Arsenic		5	2000	500			<5				-	_	-	-		_		_		7		
Section (No. 1)					100	3		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1
Series Control	Chromium (Hexavalent)			2000	500	1	100	21	-	<0.5	-	<0.5	24	20	-	<0.5	<0.5	-	20	27	70	<0.5	<0.5
September 1969 1 1 200 201 201 201 201 201 201 201 201				20000	5000	100	4000		10	71	- 13	14			16	30	10	12				- 11	14
Mart	Lead	maka	5																				
STATE OF THE PARTY	Mercury		0.1	300	75		2	<0.1	<0.1		<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	
See	Molybdenum	mg/kg	2	4000	1000		100		<2	3		<2		<2	<2	<2	<2	<2	<2	<2	<2	<2	
Set 1967 1970 1989 1989 1989 1989 1989 1989 1989 198	Nickel			12000	3000	60	40	13	8	38	21	23			25	37	18	22	19	17	22	16	
The control of the co		mg/kg								<5													
Series (1) 1 (1) (1) (1) (1) (1) (1) (1) (1) (Silver			720			200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Series		mg/kg	5	4 40000			2000	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
See		mg/kg	- 0	140000	35000	200	6000	40	33	140	45	40	34	29	00	122	40	52	00	00	152	43	45
March Marc		ma/ka	0.2	16	4	1	2			en 2		en 2				en 2	en 2				_	en 2	e0.2
Tament up 1 5	Toluene								-	<0.5			-	-		<0.5	<0.5						<0.5
TAMES M. 15 15 15 15 15 15 15 1	Ethylbenzene		0.5					-	-	<0.5	-		-	-	-	<0.5	<0.5	-	-	-	-		<0.5
Marche Ma	Xylene (o)	mg/kg						-		<0.5		<0.5	-			<0.5	<0.5	-				<0.5	<0.5
K. Parkeller (M. 1948) 1	Xylene (m & p)							-	-	<0.5	-	<0.5	-	-	-	<0.5	< 0.5	-	-	-	-	<0.5	<0.5
Fig. 25 Case Angelow Part		mg/kg	0.5					-	-	<0.5	-	<0.5	-	-	-	<0.5	<0.5	-	-	-	-	<0.5	<0.5
Schleider Mary 1		malka	10							<10	-	e10	_		 	×10	r10	<u> </u>	+		-	×10	<10
Control cont	C6-C10 Fraction	ma/ka						-	-	<10	1	<10	-	-	1	<10	<10	-	+ -	1	1	<10	<10
SCHOOL SALE AND SALE	F2 (>C10-C16 minus Naphthalene)	mg/kg						-	-	<50	-	<50	-	-	-	<50	<50	-	-	-	-	<50	<50
71 Accordange with a control of the	>C10-C16 Fraction	mg/kg						-	-	<50	-	<50	-	-	-	<50	<50	-	-	-	-	<50	<50
**School and find of the control of	F3 (>C16-C34 Fraction)	mg/kg							-		-	<100	-	-	-	<100	<100	-	-	-	-	<100	<100
No. 1964	F4 (>C34-C40 Fraction)		100						-	<100	-		-	-	-			-	-		-		
60 Fractors 196 10 1980 10 10 10 10 10 10 10		mg/kg	50					-	-	130	-	<50	-	-	-	<50	<50	-	-	•	-	<50	<50
CONTRIBUTION 1979 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ma/ka	10	2600	650	100				<10		<10				<10	<10					<10	<10
Color Colo	C10-C14 Fraction	mg/kg							-	<50	-	<50	-	-		<50	<50				-	<50	<50
GO GE Fragrey 19 10 10 10 10 10 10 10 10 10 10 10 10 10	C15-C28 Fraction		100						-	<100	-	<100	-	-	-	<100	<100	-	-	-	-	<100	<100
No.		mg/kg							-		-		-	-	-			-	-	-	-		
Mathematics		mg/kg	50	40000	10000	1000			-	<50	-	<50	-	-	-	<50	<50	-	-		-	<50	<50
Prime		malka	0.5						_	en 5		en 5		_		en 5	r0.5	_	_	_	_	en 5	e0.5
Accomplement up 10 19 10 10 10 10 10 10 10 10 10 10 10 10 10	Pyrene	mg/kg							-	<0.5	-	<0.5	-	-		<0.5	< 0.5				-	<0.5	<0.5
Antenesse	Acenaphthene	mg/kg	0.5						-	<0.5		<0.5	-	-	-	< 0.5	< 0.5	-	-	-		< 0.5	< 0.5
Recolation	Acenaphthylene		0.5						-	<0.5	-	<0.5	-	-	-	< 0.5	< 0.5	-	-	-	-	<0.5	< 0.5
Manual Properties Manu									-		-		-	-	-			-	-		-		
Brookly Programmer	mg/kg mg/kg		20	5	1	0.02		-	<0.5 <0.5	-		-	-	-	<0.5		-	-	-	-		<0.5 e0.5	
Companies Image: Companies	Benzo(b+j+k)fluoranthene		0.5						-	<0.5	-	< 0.5	-	-	-	< 0.5		-			-		
Companies Image: Companies	Benzo(g,h,i)perylene	mg/kg	0.5					-	-	<0.5	-	<0.5	-	-	-	<0.5	<0.5	-	-			< 0.5	<0.5
Paper Pape	Chrysene	mg/kg	0.5					-	-		-		-	-	-					-	-		
Propose Prop		mg/kg							-		-		-	-	-				-	-	-		
Mode Color								-	-		-		-	-	-			-	-				
Publishering Publ		mg/kg mg/kg							-		-		-	-	-	<0.5	<0.5	-	-	-	-		<0.5 e0.5
Present reviews Present re	Naphthalene	mg/kg	0.5						-	<0.5	-	<0.5	-	-		<0.5	< 0.5				-	<0.5	<0.5
Photography Lab Calle mg/lg 05	Phenanthrene	mg/kg	0.5					-	-	< 0.5	-		-	-	-	<0.5		-	-	-	-		
Table PAPRis (see PECQUIATION) - Label Cealenging 0.5 0.6 0.6 0.7 0.6 0.		mg/kg			100	20			-	-	-	-	-	-	-	-		-	-	-	-	-	-
Total PAPPA (as Right TEX) (ALL COR) - Lab Code (region of the control of the con	Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab	Camg/kg						-	-	<0.5	-		-	-	-	<0.5	<0.5	-	-	-	-	<0.5	<0.5
Presental Members of the Color May 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total 8 PAHs (as BaP TEQ)(half LOR) - Lab	Call mg/kg							-		-		-	-	-			-	-	-	-		
Plancial p	Phenois	личину/кд	0.5					· ·		1.2	+	1.2	· ·			1.2	1.2	<u> </u>	+ -	 	-	1.2	1.2
24-berty (property of property of proper		mg/kg	0.03				40		-	<1	-	<1	-	-	-	<1	<1	-	-			<1	<1
Pilendi (non-halogensted) - Lab Calc mg/kg 1	3/4-Methylphenol (m/p-cresol)	mg/kg	1					-	-	<1	-	<1	-	-	-	<1	<1	-	-	-	-		
2.3.5.P Transformer mg/kg 0.05	Phenois (non-halogenated) - Lab Calc	mg/kg	1				280	-	-	< 0.03	-	< 0.03	-	-		< 0.03	< 0.03	-	-			< 0.03	< 0.03
2.4.6.th/orsphend								-	-	< 0.03	-	<0.03	-	-	-	< 0.03	<0.03	-	-	-	-	< 0.03	< 0.03
2.4-derindependent mg/kg 0.03		mg/kg						-	-		-		-	-	-			-	-	-	-		
2.4demorphismed mg/kg 1		mg/kg						-	-		-		-	-	-			-	-	-	-		
2.4-disrophend mg/kg 0.05	2,4-dichtorophenol								-	<0.03	-	<0.03	-	-	-	<0.03	<0.03	-	+ -	-	-		
2.6dichorphenol mgkg 0.03									-	K1	-	51 25		-	-	×1	<5	-	+ -			×1	- 51
2.3.5.8.2.3.6.Fiterhologhend	2.6-dichlorophenol									<0.03	 	<0.03		-	1	<0.03	<0.03		+ -			<0.03	<0.03
2-descriptioned may 00 00 00 00 00 00 00 00 00 00 00 00 00	2,3,4,5 & 2,3,4,6-Tetrachlorophenol							-	-		-		-	-	1			-		-			
2-methylened mg/kg 1		mg/kg						-	-		-		-	-	-			-	-	-	-		
2-Partophend mg/kg 1	2-methylphenol	mg/kg	1					-	-	<1	-	<1	-	-	-	<1	<1	-	-	-	-	<1	<1
4-chiens-methylehend mg/kg 0.03	2-nitrophenol	mg/kg							-		-		-	-	-	<1		-	-	-	-		
4-florophend mg/g 5								-	-		-		-	-	-	<5		-	-	-	-		
Pertacthropherol mg/kg 0.2	4-chloro-3-methylphenol	mg/kg	0.03					-	-	< 0.03	-	< 0.03	-	-	-	<0.03	< 0.03	-	-	-	-	<0.03	<0.03
Phend	4-nitrophenol		5					-	-	<5	-	<5	-	-	-	<5	<5 en n	-	+ -	-	-	<5	<5
Phenois (Total Haldgensted) mg/kg 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.0	Penachiorophenoi	ma/ka	1						-		1			-		<1		-	1				
	Phenois (Total Halogenated)		0.03					-	-	-	-		-	-	-	-	1	-	-	-	-		
	Phenols (Total Non Halogenated)	mg/kg	1					-	-	-	-		-	-	-	-	-	-	-		-		-

Summary of Soil Analytical Results

Location Code	NEL-LFB07	NEL-LFB07	NEL-LFB07	NEL-LFB08	NEL-LFB08	NEL-LFB08	NEL-LFB08	NEL-LFB08	NEL-LFB08	NEL-LFB09	NEL-LFB09	NEL-LFB09	NEL-LFB09	NEL-LFB09
Depth	3 - 3.1	4 - 4.1	5 - 5.1	0.1 - 0.2	0.5 - 0.6	2 - 2.1	3 - 3.1	4 - 4.1	5 - 5.1	0.1 - 0.2	0.5 - 0.6	1 - 1.1	2 - 2.1	3 - 3.1
Date	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018
Field ID	NEL-LFB07_3.0m	NEL-LFB07_4.0m	NEL-LFB07_5.0m	NEL-LFB08_0.1m	NEL-LFB08_0.5m	NEL-LFB08_2.0m	NEL-LFB08_3.0m	NEL-LFB08_4.0m	NEL-LFB08_5.0m	NEL-LFB09_0.1m	NEL-LFB09_0.5m	NEL-LFB09_1.0m	NEL-LFB09_2.0m	NEL-LFB09_3.0m
Sample Type	Normal													
Leb Report Number	FM1811150	EM1811150	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	FM1811724	FM1811724	EM1811150	FM1811150	FM1811150	FM1811150

						Lab Report Number	EM1811150	EM1811150	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150
						EPA Victoria IWRG 621														
			EPA Victoria IWRG	EPA Victoria IWRG		Trigger for Leachate														
	Unit	EQL	621 Category B	621 Category C		Testing														
Cyanide (Total)					50															
Cyanide (Total) Major Ions	mg/kg	1	10000	2500	50	160	-	-	-	-		<1	-	<1	-	-	<1	<1		
Fluoride	mg/kg	40	40000	10000	450	3000		-				340	-	230		-	350	300	+	+ .
Vietele																				
Arsenic Cadmium	mg/kg	5	2000	500 100	20	14	7	<5	<5	<5	<5	<5	<5	<5	<5	6	12	<5	<5	<5
Cadmium Chromium (hexavalent)	mg/kg mg/kg	0.5	400 2000	100 500	3	100	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<1	<1	<0.5	<1	<1
Chromium (III+VI)	mg/kg mg/kg	2	2000	500	'	100	-	-	27	24	-	<0.5	-	<0.5	26	25	<0.5	<0.5		+-:-
Copper	mg/kg	5	20000	5000	100	4000	13	8	8	17	11	14	10	9	9	30	11	14	10	9
Lead	mg/kg	5	6000	1500	300	20	13	14	14	43	19	10	8	10	11	40	26	18	9	8
Mercury	mg/kg	0.1	300	75 1000	1	2	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum Nickel	mg/kg mg/kg	2	4000 12000	3000	40 60	40	23	17	17	18	17	20	15	15	18	19	16	18	17	15
Selenium	mg/kg	5	200	50	10	20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Silver	mg/kg	2	720	180	10	200	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tin	mg/kg	5		500	50		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	<5	<5
Zinc	mg/kg	5	140000	35000	200	6000	38	35	67	82	45	43	33	36	39	89	42	59	33	31
BENZENE BENZENE	mg/kg	0.2	16	4	1	2						<0.2		<0.2			<0.2	<0.2		
Toluene	mg/kg	0.5						-	-		-	<0.5		<0.5	-	-	<0.5	<0.5		-
Ethylbenzene	mg/kg	0.5					-	-	-	-	-	<0.5	-	<0.5	-	-	<0.5	<0.5	-	-
Xylene (o)	mg/kg	0.5					-	-		-	-	<0.5	-	<0.5	-	-	<0.5	<0.5		
Xylene (m & p) Xylene Total	mg/kg mg/kg	0.5					-	+ - : -		+ :	-	<0.5 <0.5	1	<0.5 <0.5	1	-	<0.5	<0.5 <0.5	+	+
TRH - NEPM 2013	inging	0.0					· ·	+		<u> </u>		<0.3		NO.0	· ·		50.0		+	+
F1 (C6-C10 minus BTEXN)	mg/kg	10					-	-	-	-	-	<10	-	<10	-	-	<10	<10		
C6-C10 Fraction	mg/kg	10					-	-	-	-		<10	-	<10	-	-	<10	<10	_	
F2 (>C10-C16 minus Naphthalene) >C10-C16 Fraction	mg/kg	50 50					-	-	-	-	-	<50 <50	-	<50 <50	-	-	<50 <50	<50 <50	$\overline{}$	+
F3 (>C16-C34 Fraction)	mg/kg mg/kg	100					-	-	-	-	-	<50 <100		<50	-	-	<50 <100	<100		+-:-
F4 (>C34-C40 Fraction)	mg/kg	100						-	-		-	<100	-	<100	-	-	<100	<100		-
>C10-C40 (Sum of Total)	mg/kg	50						-	-	-		<50	-	<50	-		<50	<50	-	-
TRH - NEPM 1999																				
C6-C9 Fraction C10-C14 Fraction	mg/kg mg/kg	10 50	2600	650	100			-	-	-		<10 <50	-	<10 <50	-	-	<10 <50	<10		
C15-C28 Fraction	mg/kg	100					-	-	-	+ :	-	<100	-	<100	-	-	<100	<100	+-:-	+-:-
C29-C36 Fraction	mg/kg	100						-		-		<100	-	<100	-	-	<100	<100	-	-
C10-C36 (Sum of Total)	mg/kg	50	40000	10000	1000			-		-	-	<50	-	<50	-	-	<50	<50	-	-
PAHs Sum of polycyclic aromatic hydrocarbons		0.5										×0.5		-0.5			-0.5	-0.5		
Pyrene Property and the analysis of the analys	mg/kg mg/kg	0.5					- :	-	-	-	-	<0.5	-	<0.5	-	-	<0.5	<0.5	+-:-	+-:-
Acenaphthene	mg/kg	0.5						-	-	-		<0.5	-	<0.5	-	-	< 0.5	<0.5	-	-
Acenaphthylene	mg/kg	0.5						-		-	-	<0.5	-	<0.5	-	-	<0.5	<0.5	-	-
Anthracene Benz(a)anthracene	mg/kg	0.5						-		-	-	<0.5	-	<0.5	-	-	< 0.5	<0.5		-
Benzo(a) pyrene	mg/kg mg/kg	0.5	20	5	1	0.02	-	-	- :	-	-	<0.5		<0.5	-		<0.5	<0.5	+-:-	+-:-
Benzo(b+j+k)fluoranthene	mg/kg	0.5						-		-		<0.5	-	<0.5		-	<0.5	<0.5	-	-
Benzo(g,h,i)perylene	mg/kg	0.5						-	-	-		<0.5	-	<0.5	-	-	< 0.5	<0.5	-	-
Chrysene	mg/kg	0.5						-	-	-		<0.5	-	<0.5	-	-	<0.5	<0.5	-	
Dibenz(a,h)anthracene Fluoranthene	mg/kg	0.5					-	-	-	-		<0.5 <0.5	-	<0.5 <0.5		-	<0.5	<0.5 <0.5		
Fluorene	mg/kg mg/kg	0.5					-	-	-	-	-	<0.5	-	<0.5	-		<0.5	<0.5		
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5						-				<0.5	-	<0.5	-	-	<0.5	<0.5	-	-
Naphthalene	mg/kg	0.5						-		-		<0.5	-	<0.5	-	-	<0.5	<0.5	-	
Phenanthrene PAHs (Sum of total) - Lab calc	mg/kg mg/kg	0.5	400	100	20			-		-		<0.5	-	<0.5	-	-	<0.5	<0.5		· ·
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab 0		0.5	400	100	20		- :	1	-	-	-	<0.5		<0.5	1	-	<0.5	<0.5	+ -	+ :-
Total 8 PAHs (as BaP TEQ)(half LOR) - Lab C	Cal mg/kg	0.5						1	-			0.6		0.6		-	0.6	0.6		+ -
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab Ca	ald mg/kg	0.5						-		-	-	1.2	-	1.2	-	-	1.2	1.2		
Phenois										1										
Phenols(halogenated) - Lab Calc 3/4-Methylphenol (m/p-cresol)	mg/kg	0.03				40		-	-	-	-	<1	-	<1	-	-	<1	<1		
3/4-Methylphenol (m/p-cresol) Phenols (non-halogenated) - Lab Calc	mg/kg mg/kg	1 1				280	-	1	-	+ -	-	<0.03	-	<0.03	-	-	<0.03	<1	+	+
2,3,5,6-Tetrachlorophenol	mg/kg	0.03				200		1	-			<0.03		<0.03		-	<0.03	<0.03		+ -
2,4,5-trichlorophenol	mg/kg	0.05						-		-	-	<0.05	-	<0.05	-	-	<0.05	<0.05		-
2,4,6-trichlorophenol	mg/kg	0.05						-	-	-	-	< 0.05	-	< 0.05	-	-	< 0.05	<0.05		
2,4-dichlorophenol	mg/kg	0.03						-	-	-		< 0.03	-	<0.03	-		<0.03	<0.03		-
2,4-dimethylphenol	mg/kg	1						-	-	-	-	<1	-	<1	-	-	<1	<1		-
2,4-dinitrophenol 2,6-dichlorophenol	mg/kg	0.03					-	-	-	-	-	<5	-	<5	-	-	<5	<5	$\overline{}$	+
2,6-dichlorophenol 2,3,4,5 & 2,3,4,6-Tetrachlorophenol	mg/kg mg/kg	0.03						1	-	1	-	<0.03	-	<0.03	1	-	<0.03	< 0.03	+	+
2-chlorophenol	mg/kg mg/kg	0.03					<u> </u>	+ :	 	+ :	- :	<0.03	-	<0.03	1	-	<0.03	<0.03	+	+-:-
2-methylphenol	mg/kg	1						-	-	-	-	<1	-	<1	-	-	<1	<1	-	-
2-nitrophenol	mg/kg	1								-		<1	-	<1	-	-	<1	<1		
4,6-Dinitro-o-cyclohexyl phenol	mg/kg	5						-	-	-	-	<5	-	<5	-	-	<5	<5		
4-chloro-3-methylphenol	mg/kg	0.03						-	-	-	-	<0.03	-	< 0.03	-	-	<0.03	<0.03		-
4 - Second	mg/kg						- :	1		-	-	<5	-	<5 <0.2	-	-	<5 <0.2	<5.2	+	+ -
4-nitrophenol	ma/ka	0.2																		
4-nitrophenol Pentachlorophenol Phenol	mg/kg mg/kg	0.2						-		-		<1		<1	-		<1	<1	-	
4-nitrophenol Pentachlorophenol	mg/kg								-		-	<1	-	<1		-	<1	<1		

GHD

Appendix J Table 3 Summary of Soil Analytical Results

Location Code	NEL-LFB09	NEL-LFB10	NEL-LFB10	NEL-LFB10	NEL-LFB10	NEL-LFB10	NEL-LFB10	NEL-LFB10
Depth	4 - 4.1	0.1 - 0.2	0.5 - 0.6	2 - 2.1	3 - 3.1	4 - 4.1	4 - 4.1	5 - 5.1
Date	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	11/07/2018	10/07/2018
Field ID	NEL-LFB09_4.0m	NEL-LFB10_0.1m	NEL-LFB10_0.5m	NEL-LFB10_2.0m	NEL-LFB10_3.0m	NEL-LFB10_4.0m	QC3002	NEL-LFB10_5.0m
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal
Lab Report Number	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724

		_			1	Lab Report Number	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724
	Unit	EQL	EPA Victoria IWRG 621 Category B	EPA Victoria IWRG 621 Category C	EPA Victoria IWRG 621 Clean Fill	EPA Victoria IWRG 621 Trigger for Leachate Testing								
Inorganies														
Cyanide (Total)	mg/kg	1	10000	2500	50	160		-	-	<1	-	<1	<1	-
Major Iona														
Fluoride	mg/kg	40	40000	10000	450	3000		-		510	-	270	310	-
Metale														
Arsenic	mg/kg	5	2000	500	20	14	<5	<5	7	5	<5	<5	<5	<5
Cadmium Chromium (hexavalent)	mg/kg	0.5	400 2000	100 500	3	4 100	<1	<1	<1	<1	<1	<1	<1 0.6	<1
Chromium (hexavalent) Chromium (III+VI)	mg/kg	2	2000	500	1	100	24	23		<0.5	-	<0.5	0.6	30
Copper (III+VI)	mg/kg mg/kg	5	20000	5000	100	4000	8	18	30	13	10	- 8	- 8	8
Lead	mg/kg	5	6000	1500	300	20	11	30	8	13	12	11	12	11
Mercury	mg/kg	0.1	300	75	1	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Molybdenum	mg/kg	2	4000	1000	40	100	<2	<2	<2	<2	<2	<2	<2	<2
Nickel	mg/kg	2	12000	3000	60	40	10	25	4	22	16	16	14	12
Selenium	mg/kg	5	200	50	10	20	<5	<5	<5	<5	<5	<5	<5	<5
Silver	mg/kg	2	720	180	10	200	<2	<2	<2	<2	<2	<2	<2	<2
Tin	mg/kg	5		500	50		<5	<5	<5	<5	<5	<5	<5	<5
Zinc	mg/kg	5	140000	35000	200	6000	22	72	46	39	37	31	30	34
BTEXN														
Benzene	mg/kg	0.2	16	4	1	2	-	-	-	<0.2	-	<0.2	<0.2	-
Toluene Ethylhograpa	mg/kg	0.5					-	-	-	<0.5	+ -	<0.5	<0.5	
Ethylbenzene Xylene (o)	mg/kg mg/kg	0.5						1	-	<0.5	1	<0.5	<0.5	-
Xylene (o) Xylene (m & p)	mg/kg	0.5						1	1	<0.5	1	<0.5	<0.5	-
Xylene Total	mg/kg	0.5						-	-	<0.5	-	<0.5	<0.5	-
TRH - NEPM 2013								1	1		1		2.0	
F1 (C6-C10 minus BTEXN)	mg/kg	10					-	-	-	<10	-	<10	<10	-
C6-C10 Fraction	mg/kg	10						-	-	<10	-	<10	<10	-
F2 (>C10-C16 minus Naphthalene)	mg/kg	50						-		<50		<50	<50	
>C10-C16 Fraction	mg/kg	50								<50		<50	<50	-
F3 (>C16-C34 Fraction)	mg/kg	100						-	-	<100	-	<100	<100	-
F4 (>C34-C40 Fraction)	mg/kg	100							-	<100	-	<100	<100	
>C10-C40 (Sum of Total)	mg/kg	50					-		-	<50	-	<50	<50	
TRH - NEPM 1999														
C6-C9 Fraction	mg/kg	10	2600	650	100					<10	-	<10	<10	
C10-C14 Fraction C15-C28 Fraction	mg/kg	50 100					-	-	-	<50	-	<50	<50	-
C29-C36 Fraction	mg/kg mg/kg	100								<100 <100		<100 <100	<100 <100	
C10-C36 (Sum of Total)	mg/kg	50	40000	10000	1000		-			<50	-	<50	<50	
PAHs	mgmg	30	40000	10000	1000		-			-00	-		~30	
Sum of polycyclic aromatic hydrocarbons	mg/kg	0.5								<0.5	-	<0.5	<0.5	
Pyrene	mg/kg	0.5								<0.5	-	<0.5	<0.5	
Acenaphthene	mg/kg	0.5					-			<0.5	-	<0.5	<0.5	-
Acenaphthylene	mg/kg	0.5						-	-	< 0.5	-	<0.5	<0.5	-
Anthracene	mg/kg	0.5						-		<0.5	-	<0.5	<0.5	-
Benz(a)anthracene	mg/kg	0.5					-	-	-	< 0.5	-	<0.5	<0.5	-
Benzo(a) pyrene	mg/kg	0.5	20	5	1	0.02				<0.5		<0.5	<0.5	
Benzo(b+j+k)fluoranthene	mg/kg	0.5								<0.5		<0.5	<0.5	
Benzo(g,h,i)perylene Chrysene	mg/kg mg/kg	0.5						-		<0.5 <0.5	-	<0.5	<0.5	-
Dibenz(a,h)anthracene	mg/kg	0.5					-	-	-	<0.5	-	<0.5	<0.5	-
Fluoranthene	mg/kg	0.5								<0.5		<0.5	<0.5	
Fluorene	mg/kg	0.5								<0.5		<0.5	<0.5	
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5					-	-	-	<0.5	-	<0.5	<0.5	-
Naphthalene	mg/kg	0.5						-	-	<0.5	-	<0.5	<0.5	-
Phenanthrene	mg/kg	0.5							-	<0.5	-	<0.5	<0.5	
PAHs (Sum of total) - Lab calc	mg/kg	0.5	400	100	20							-	-	
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab	Camg/kg	0.5					-	-	-	<0.5	-	<0.5	<0.5	-
Total 8 PAHs (as BaP TEQ)(half LOR) - Lab								-	-	0.6	-	0.6	0.6	-
	Cal mg/kg	0.5									1	1.2	1.2	-
Total 8 PAHs (as BaP TEQ)(full LOR) - Lab (Cal mg/kg Calc mg/kg	0.5						-		1.2				
Phenois	Calc mg/kg	0.5							-					_
Phenois Phenois(halogenated) - Lab Calc	Cald mg/kg mg/kg	0.5				40		-	-	<1		<1	<1	-
Phenois Phenois(halogenated) - Lab Calc 3/4-Methylphenoi (m/p-cresol)	mg/kg mg/kg mg/kg	0.5						-			-	<1	<1	
Phenois Phenois(halogenated) - Lab Calc 3/4-Methylphenol (m/p-cresol) Phenois (non-halogenated) - Lab Calc	mg/kg mg/kg mg/kg mg/kg	0.5 0.03 1				40		-	-	<1 <1 <0.03	-	<1 <1 <0.03	<1 <0.03	-
Phenols Phenols(halogenated) - Lab Calc 3/4-Methylphenol (m/p-cresol) Phenols (non-halogenated) - Lab Calc 2,3,5,6-Tetrachlorophenol	mg/kg mg/kg mg/kg mg/kg mg/kg	0.5 0.03 1 1 0.03						-		<1 <1 <0.03 <0.03	-	<1 <1 <0.03 <0.03	<1 <0.03 <0.03	-
Phenois (halogenated) - Lab Catc Phenois (halogenated) - Lab Catc 3/4-Methylphenol (m/p-cresol) Phenois (non-halogenated) - Lab Calc 2,3.5,6-Tetrachlorophenol 2,4,5-trichlorophenol	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.5 0.03 1 1 0.03 0.05					-		-	<1 <1 <0.03 <0.03 <0.05		<1 <1 <0.03 <0.03 <0.05	<1 <0.03 <0.03 <0.05	-
Phenois Phenois(halogenated) - Lab Calc 3/4-Methylphenol (m/p-cresol) Phenois (non-halogenated) - Lab Calc 2,3,5,6-Tetrachlorophenol 2,4,6-trichlorophenol 2,4,6-trichlorophenol	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.5 0.03 1 1 0.03 0.05						-	-	<1 <1 <0.03 <0.03 <0.05 <0.05	-	<1 <1 <0.03 <0.03 <0.05 <0.05	<1 <0.03 <0.03 <0.05 <0.05	-
Phenois (halogenated) - Lab Calc 344-Methylphenol (mip-cresol) Phenois (non-halogenated) - Lab Calc 2.3.5.6 - Tetanknophenol 2.4.5-trichlorophenol 2.4.6-trichlorophenol 2.4.6-trichlorophenol	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.5 0.03 1 1 0.03 0.05 0.05					-	-	-	<1 <1 <0.03 <0.03 <0.05	-	<1 <1 <0.03 <0.03 <0.05	<1 <0.03 <0.03 <0.05	-
Phenois Phenois(halogenated) - Lab Calc 3/4-Methylphenol (mip-cresol) Phenois (non-halogenated) - Lab Calc 2.3.5.6-Tetrachlorophenol 2.4.5-tichlorophenol 2.4.6-tichlorophenol 2.4-d-inchlorophenol	mg/kg	0.5 0.03 1 1 0.03 0.05 0.05 0.03						-	-	<1 <0.03 <0.03 <0.05 <0.05 <0.05	-	<1 <1 <0.03 <0.03 <0.05 <0.05 <0.05	<1 <0.03 <0.03 <0.05 <0.05 <0.05 <1.03	-
Phenois (Phenois (Phe	mg/kg	0.5 0.03 1 1 0.03 0.05 0.05 0.05 0.03 1 5								<1 <0.03 <0.03 <0.05 <0.05 <0.05 <1 <5		<1 <1 <1 <0.03 <0.03 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <11 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	<1 <0.03 <0.03 <0.05 <0.05 <0.03 <1.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.	-
Phenois Phenoi	mg/kg	0.5 0.03 1 1 0.03 0.05 0.05 0.05 0.03 1 5 0.03					-	-	-	<1 <1 <0.03 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	-	<1 <1 <0.03 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <1 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.	<1 <0.03 <0.03 <0.05 <0.05 <0.03 <1 <6 <0.03	-
Phenois (halopenated) - Lab Calc 344-Methylphenol (mip-creso) Phenois (non-halopenated) - Lab Calc 2.3.5.6 - Feteochrophenol 2.4.5-Fetchkorophenol 2.4.6-fetchkorophenol 2.4.dichlorophenol 2.4.dichlorophenol 2.5.4-dichlorophenol 2.5.4-dichlorophenol 2.5.4-dichlorophenol	mg/kg	0.5 0.03 1 1 0.03 0.05 0.05 0.03 1 5 0.03						-		<1 <1 <1 <0.03 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <1 <5 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.	-	<1 <10.03 <0.03 <0.06 <0.06 <0.05 <0.03 <1 <5 <0.03	<1 <0.03 <0.03 <0.05 <0.05 <0.03 <1 <5 <0.03	-
Phenolg Phenolghuisopenated) - Lab Calic 344-Methylphenol (mip-cresol) Phenols (ma-halpogenated) - Lab Calic 344-Methylphenol (mip-cresol) Phenols (ma-halpogenated) - Lab Calic 2.3.5.6 - Tetrachforophenol 2.4.6 - Stechhorophenol 2.4.6 - Stechhorophenol 2.4.4 - dinethylphenol 2.3.4.5 & 2.3.6 - Tetrachforophenol 2.3.4.5 & 2.3.6 - Tetr	mg/kg	0.5 0.03 1 1 0.03 0.05 0.05 0.03 1 5 0.03 0.05					-	-	-	<1 <1 <1 <0.03 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <1 <1 <<5 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	-	<1 <1 <1 <0.03 <0.03 <0.05 <0.05 <1 <0.05 <0.05 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	<1 <0.03 <0.03 <0.05 <0.05 <0.05 <0.03 <1 <<5 <0.03 <0.03 <0.03	-
Phenois Phenoi	mg/kg	0.5 0.03 1 1 0.03 0.05 0.05 0.03 1 5 0.03 0.05 0.03					-	-	-	<1 <1 <1 <0.03 <0.03 <0.05 <0.05 <0.05 <0.03 <1 <0.03 <1 <0.05 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.	-	<1 <1 <1 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.	<1 <0.03 <0.03 <0.05 <0.05 <0.05 <0.03 <1 <0.03 <0.03 <0.03 <0.03 <1	-
Phenolal Phe	mg/kg	0.5 0.03 1 1 0.03 0.05 0.05 0.03 1 5 0.03 0.05 0.03 1 1						-	-	<1 <1 <1 <1 <0.03 <0.03 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	-	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1 <0.03 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.	-
Phenois Phenoi	mg/kg	0.5 0.03 1 1 1 0.03 0.05 0.05 0.03 1 5 0.03 0.05 0.03 1 5 0.03 1 5 0.03					-	-	-	<1 <1 <1 <0.03 <0.03 <0.05 <0.05 <0.05 <0.03 <1 <0.03 <1 <0.05 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.	-	<1 <1 <1 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.	<1 <0.03 <0.03 <0.05 <0.05 <0.05 <0.03 <1 <0.03 <0.03 <0.03 <0.03 <1	-
Phenois Phenoi	mg/kg	0.5 0.03 1 1 0.03 0.05 0.05 0.03 1 5 0.03 0.05 0.03 1 1 1 0.03						-		<1 <1 <1 <1 <0.03 <0.03 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	-	<1 <1 <1 <1 <0.03 <0.05 <0.05 <0.05 <0.05 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	<1 <0.03 <0.03 <0.05 <0.05 <0.05 <0.03 <1 <5 <0.03 <1 <5 <0.03 <1 <5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	-
Pilenoids Phenois (halogenated) - Lab Calc 344 Methylphenol (mip-cresol) Phenois (non-halogenated) - Lab Calc 3.3.5.6 Felrachicophenol 2.4.5 Hichbrophenol 2.4.6 Hichbrophenol 2.4.4 dichlorophenol 2.4.4 dichlorophenol 2.4.4 dichlorophenol 2.4.4 dichlorophenol 2.4.4 dichlorophenol 2.5.4 dichlorophenol 2.5.4 dichlorophenol 2.6.4 dichlorophenol 2.6.4 dichlorophenol 2.6.4 dichlorophenol 2.6.1 dichlorophenol 4.6 dichlorophenol 4.6 dichlorophenol 4.6 dichlorophenol 4.6 dichlorophenol 4.6 dichlorophenol	mg/kg	0.5 0.03 1 1 0.03 0.05 0.05 0.03 1 5 0.03 0.05 0.03 1 1 5 0.03 5 0.03 5 0.03 5							-	<1 <1 <1 <0.03 <0.03 <0.05 <0.05 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <0.03 <5 <0.03 <0.03 <5 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03<	-	41 41 40,03 40,03 40,05 40,05 40,03 41 45 40,05 40,03 41,05 40,05 41,05	<1 <0.03 <0.03 <0.05 <0.05 <0.03 <10.5 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0	-
Pileanold Phenois (halogenated) - Lab Calc 344. Methylphenol (mip-creso) Phenois (non-halogenated) - Lab Calc 3.4. Service (mip-creso) Phenois (non-halogenated) - Lab Calc 2.3.5.6 - Fetackhorophenol 2.4. Servichborophenol 2.4. Servichborophenol 2.4. decision-phenol 2.4. decision-phenol 2.4. decision-phenol 2.4. decision-phenol 2.5. decision-phenol 2.5. decision-phenol 2.5. decision-phenol 3.6. District operation 4. Service phenol	mg/kg	0.5 0.03 1 1 0.03 0.05 0.05 0.05 0.03 1 5 0.03 1 1 5 0.03 0.05 0.03 5 0.03 1 1 5 0.03						-		<1 <1 <1 <1 <0.03 <0.03 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	-	<1 <1 <1 <1 <0.03 <0.05 <0.05 <0.05 <0.05 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03	<1 <0.03 <0.03 <0.05 <0.05 <0.05 <0.03 <1 <5 <0.03 <1 <5 <0.03 <1 <5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	-
Phenois Phenois (mip-creso) Phenois (mip-creso) Phenois (mip-creso) Phenois (mo 1-abc act act act act act act act act act ac	mg/kg	0.5 0.03 1 1 0.03 0.05 0.05 0.03 1 5 0.03 0.05 0.03 1 1 5 0.03 5 0.03 5 0.03 5								<1 <1 <1 <0.03 <0.03 <0.05 <0.05 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <5 <0.03 <0.03 <5 <0.03 <0.03 <5 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03<	-	41 41 40,03 40,03 40,05 40,05 40,03 41 45 40,05 40,03 41,05 40,05 41,05	<1 <0.03 <0.03 <0.05 <0.05 <0.03 <10.5 <0.03 <1 <0.03 <1 <0.03 <1 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <1 <0.05 <0.03 <0.05 <0.03 <0.05 <0.03 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0	-



Summary of Soil Analytical Results

Location Code	NEL-BH079	NEL-BH079	NEL-BH086	NEL-BH087	NEL-BH087	NEL-BH088	NEL-BH088	NEL-BH089	NEL-BH089	NEL-BH100	NEL-BH101	NEL-BH101	NEL-BH106	NEL-BH106	NEL-BH107	NEL-BH107
Depth	0.5 - 0.6	1 - 1.1	0.3 - 0.4	0.2 - 0.3	0.7 - 0.8	0.2 - 0.3	0.6 - 0.7	0.2 - 0.3	0.6 - 0.7	2 - 2.1	0.5 - 0.6	1 - 1.1	2 - 2.1	3 - 3.1	0.7 - 0.8	2 - 2.1
Date	10/07/2018	10/07/2018	2/11/2017	21/11/2017	21/11/2017	21/11/2017	21/11/2017	21/11/2017	21/11/2017	23/01/2018	14/06/2018	14/06/2018	12/01/2018	12/01/2018	10/01/2018	11/01/2018
Field ID	NEL-BH079_0.5m	NEL-BH079_1.0m	NEL-BH086_0.3m	NEL-BH087_0.2m	NEL-BH087_0.7m	NEL-BH088_0.2m	NEL-BH088_0.6m	NEL-BH089_0.2m	NEL-BH089_0.6m	NEL_BH100_2.0m	NEL-BH101_0.5	NEL-BH101_1.0	NEL-BH106_2.0m	NEL-BH106_3.0m	NEL-BH107_0.7m	NEL-BH107_2.0m
Sample Type	Normal Normal	Normal	Normal	Normal	Normal											
Lab Report Number	EM1811072	EM1811072	EM1716457	EM1715998	EM1715998	EM1715998	EM1715998	EM1715998	EM1715998	EM1801849	EM1809614	EM1809614	EM1801198	EM1801198	EM1801198	EM1801198

Abbetisic Piece 9 0.1 1 1 1 1 1 1 1 1 1			_				Lab Report Number	EM1811072	EM1811072	EM1716457	EM1715998	EM1715998	EM1715998	EM1715998	EM1715998	EM1715998	EM1801849	EM1809614	EM1809614	EM1801198	EM1801198	EM1801198	EM1801198
Column C		Linit	EOL				Trigger for Leachate																
Column	VOCe	Olik	E-GEL	OL I GERNGOLY D	OL 1 CEMBORY C	OLI CIGUITIII	reeding		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Separate 1968 1968 1969 196		ma/ka	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
The second content of the second content o		0 0						0.00			0.00					0.00			0.00		0.00		0.00
State 19								0.00															
Company Comp		ilig/kg	0.02					NO.02	V0.02	NO.02	NO.02	~0.02	~0.02	NO.02	~0.02	~0.02	~0.02	NO.02	~0.02	~0.0Z	~0.02	V0.02	~0.02
Company		ene five	-					-25	- 26		- 26		25	- 25	- 26				- 25		- 20	-26	
Secondarian and Company		ilig/kg	- 0					~5															
Company and Market Company Com																							
Mary																	-			-			-
Second Part 18						1			<0.03	<0.03	<0.03	<0.03	<0.03		<0.03	<0.03			<0.03				
Section Part Section Part Section Part Section Part Pa					10											-							
March Marc																0.00	0.00						
Second Property Column Property Colu																		_		_			
Second March Mar																							
Second S	Aldrin + Dieldrin	mg/kg			1.2		0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03			< 0.03							
Section Property 10 10 10 10 10 10 10 1	b-BHC	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Cambridge Part 10 Part Chlordane	mg/kg	0.03	16	4		2	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
Control Sept Control Chlordane (cis)		0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
Section 1																							
1.500 West 12																							
1507																							
STOCK CLA COM																							
Second S							40																
Second May 15 May 15 May 16 May 17 May 18					50		40				0.00		0.00				0.00						
Standard Part Standard Part Standard Part Standard Part Standard Part Standard Part Dicionii																							
Company Comp																							
Figure Part Column Part Part Column Part Part Column Part Pa																							
Team	Endosulfan Sulfate	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
## Section Part 19 19 19 19 19 19 19 1	Endrin		0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
90C Lower mys 20	Endrin aldehyde	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Page	g-BHC (Lindane)		0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Windows Wind					12		0.6		×0.03	rn n3	en n3							e0.03					
Mathematics																							
Manufactor Man									-0.00		-0.00		-0.00									-0.00	
Mellian Tails Mellian Tails											0.00												
Sympo Mag 02 Mag Methoxychior	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	*0.03	
Sympo Mag 02 Mag MAII		0.0					-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0		-0.0	-0.0					
Table 1																							
Company Comp								<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5				
Fig. (16a) mpkg 61 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		mg/kg	0.2					-	-	-	-	-	-	-	-	-	<0.2	-		<0.2	<0.2	<0.2	<0.2
Provide Prov																							
Foreign Pay S S S S S S S S S		mg/kg	0.1	0	0	2		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Contract Mylocochorus FAVIC Page Discription			-																				
Chromodomore produce produce (produce) Chromodomore (produce) Chr		mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cheer character (Fash)																							
1.1.1 1.1.						1																	
1.1.1-(Architechember mg/kg 0.01					10						0.0.					0.01	0.01		0.0.				
1.1.2 Arienthocethane mg/kg 0.02								<0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01		<0.01		<0.01		< 0.01	
1.1.24in/broethame								<0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01
1.1-defendementer mg/kg 0.01								<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02
1.2.4 infortementation mg/kg 0.01								<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1-2-definitement								<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1.2-deh/sobrehume																							
1.4-citichotentenine																							
Cathon tetrachoride mg/kg 0.01																							
Observations																							
Cherome mg/kg 0.02																							
GB1-2-distroplemente mg/kg 0.01																							
Obtainmentable Object Ob																							
Please distributed enterline mg/kg 0.02 11 2.8 1.4 4.02																							
Very debate eg/kg 0.02 4.8 1.2 0.6 d.02 d.																							
Abbestos 9 0.1 0.0 No																							
Abbestod (Trace)		mg/kg	0.02	4.8	1.2		0.6	< 0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02
Abbellos (Tarce) Fibre 5	Asbestos		1						1	1			1	1									
Abbesion Type		g																-	-				
weight disample 2 0.01 20.4 20.7 21.7 17.3 20.9 30.3 28.4 38.6 43.8 42.1 39.7 41.9 Optionards		Fibres	5							No	-	-	No	No	No	No							
Commerts		-								-		-	-		-	-	-		-		-		-
		9	0.01							20.4	20.7	21.7	17.3	20.9	30.3	28.4	38.6		-	43.8	42.1	39.7	41.9
	Comments																						

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1 g/kg.



Summary of Soil Analytical Results

Location Code	NEL-BH108	NEL-BH108	NEL-BH108	NEL-BH109	NEL-BH109	NEL-BH110	NEL-BH110	NEL-BH110	NEL-BH110	NEL-BH118	NEL-BH118	NEL-BH118	NEL-BH119	NEL-BH119	NEL-BH119	NEL-BH120
Depth	0.2 - 0.3	0.7 - 0.8	1.2 - 1.3	0.2 - 0.3	1.1 - 1.2	0.1 - 0.2	0.5 - 0.6	1 - 1.1	1.5 - 1.6	0.5 - 0.5	0.8 - 0.8	3.5 - 3.5	1 - 1	1.8 - 1.8	2.5 - 2.5	0.2 - 0.3
Date	19/02/2018	19/02/2018	19/02/2018	5/03/2018	5/03/2018	13/03/2018	13/03/2018	13/03/2018	13/03/2018	12/09/2018	12/09/2018	12/09/2018	7/09/2018	7/09/2018	7/09/2018	5/07/2018
Field ID	NEL-BH108_0.2m	NEL-BH108_0.7m	NEL-BH108_1.2m	NEL-BH109_0.2m	NEL-BH109_1.1m	NEL-BH110_0.1m	NEL-BH110_0.5m	NEL-BH110_1.0m	NEL-BH110_1.5m	NEL-BH118_0.5	NEL-BH118_0.8	NEL-BH118_3.5	NEL-BH119_1.0	NEL-BH119_1.8	NEL-BH119_2.5	NEL-BH120_0.2m
Sample Type	Normal Normal	Normal	Normal	Normal	Normal	Normal										
Lab Report Number	EM1803248	EM1803248	EM1803248	EM1804004	EM1804004	EM1804502	EM1804502	EM1804502	EM1804502	EM1814744	EM1814744	EM1814744	EM1814388	EM1814388	EM1814388	EM1810873

MATCHING 14 15 15 15 15 15 15 15		_				1	Lab Report Number	EM1803248	EM1803248	EM1803248	EM1804004	EM1804004	EM1804502	EM1804502	EM1804502	EM1804502	EM1814744	EM1814744	EM1814744	EM1814388	EM1814388	EM1814388	EM1810873
Column C							Trigger for Leachate																
Green was also with a second property of the control of the contro	1/00-	Unit	EQL	621 Category B	621 Category C	021 Clean Fill	I detting		1	1	1	1	1	1	1	1	1	1	1		1	1	1
Marie Mari	VOCS																						
Second Column																							
Company Comp																							
Administration 100		mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Company																							
Companies of the control of the co		mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<6	<5	<5	<5	<5	<5	<5
Segretary Control (1988) Segretary Control			_																				
Secondary Seco			0.00							-	-			-	-								
1200						1			< 0.03			< 0.03	< 0.03		< 0.03	< 0.03	< 0.14	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
AME		mg/kg			10			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	-	-	-	-	-	-
Mary Sale 1		mg/kg						< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.14	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
MATCHING 14 15 15 15 15 15 15 15	a-BHC	mg/kg	0.03					< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.14	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
250 10 10 10 10 10 10 10	Aldrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.14	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Section (A) 10	Aldrin + Dieldrin	mg/kg	0.03	4.8	1.2		0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.14	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Campar	h-RHC							<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.14	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Same part				16	4		2																
Camparigned Park 202					,																		
## 60 10 10 10 10 10 10 10																							
ACCOUNT 1983 1981																							
MODINGO 194 18 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		ing/kg																					
Second Column Second Colum										_	_								_				
Second S								-0.00	-0.00	-0.00		-0.00		-0.00	-0.00	-0.00		-0.00		-0.00	-0.00	-0.00	
Company				50	50		40																
Teacher March Ma	Dieldrin	mg/kg																					
Content Cont	Endosulfan I	mg/kg	0.03					< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.14	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Control Phys Col Control Phys Col	Endosulfan II	mg/kg	0.03					< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.14	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Consideration Consideratio	Endosulfan Sulfate		0.03					< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.14	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
98C Christopher Philips Endrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.14	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
ger CLANGO MAG 201	Endrin aldehyde	ma/ka	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.14	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Property	g-BHC (Lindage)		0.03					en n3	×0.03	en na	en na	en na	en n3	×0.03	en n3	r0.03	e0.14	en na	en na	≥n n3	en na	×0.03	rn n3
Negative proper Negative p				4.8	1.2		0.6		<0.03						rn.n3	r0.03	<0.14			en na			
New Processors																							
Management Man																							
My (Sun Flags) Park																							
Migrand Taily	MAH	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	NU.14	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Symptom			0.0														-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
Trial Mark Clear The Standard Mark Clear The										-0.5													
Part								-0.0			-0.0				-0.0	-0.0	50.5	40.5	<0.5	NU.5	<0.5	40.5	<0.5
PGB (108)		mg/kg	0.2					50.2	40.2	<u.z< td=""><td>50.2</td><td><0.2</td><td>50.2</td><td>40.2</td><td>40.2</td><td><u.z< td=""><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td></td></u.z<></td></u.z<>	50.2	<0.2	50.2	40.2	40.2	<u.z< td=""><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td></td></u.z<>	-	-	-	-	-		
Process Proc																							
Chromatic Mystophone No. S. S. S. S. S. S. S.		mg/kg	0.1	0	0	2		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Contract Professional Profess		and the	-																				
Chiested springer processors (Falls) mgkg 011 mgk		mg/kg	- 5					<5	<5	<5	<5	0	<>	<5	<5	<	<6	<	<5	<5	<5	< 5	<5
Cheer channels deployed a control of the control		_																					
1.1.1.2 festandone marks						1																	
1,1,1-technorabement maying 0.01				50	10																		
1.1.2 declarationeshane mg/lg 0.02																							
1.1.2-decinosembare mg/kg 0.01																							
1.4de/information mg/kg 0.01																							
1.4.4 information may 0 00 00 00 00 00 00 00 00 00 00 00 00																							
1.5 definitements			0.0.																				
1.4de/incontension															-0.01								
1.4de/chorebarrate									<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	×0.02	<0.02	<0.02	<0.02	<0.02	
Carbon Interdations mg/kg 0.01									<0.02 <0.02	<0.02	<0.02	<0.02 <0.02	<0.02 <0.02	<0.02	<0.02	<0.02 <0.02	<0.02 <0.02	<0.02	<0.02	<0.02 ≠0.02	<0.02	<0.02 ≤0.02	
Chicorhesence mg/kg 0.02									<0.02		<0.02	<0.02			<0.02	<0.02		_		<0.02		<0.02	
Chieseform																							
## destruction of the control of the																					0.00		
Deltomenhane																							
Mexicilic (Inco) Face Fa																							
Varieties					2.0		14																
Destro																							
Albeltal Goldender 9 0.1 No No No No No No Yes No No		mg/kg	0.02	4.8	1.2		0.6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Adeletion (Trice) Fixes 5 No No No No No No No No No Adeletion (Trice) S No		-	0.1					No	Mo	No	+	+	+	+	+	+	+	No	+	+	Voc	+	+
Albeitos Type		Elbron									 	+ -		+		+ -	+			 		+	
weight of sample 9 0.01 35.2 35.1 37.7 · · · · · · · 51.1 · · 31.6 · ·		- Iules	- 0					140	INO	140		+ -	+	+		+	+	INU	+ -	+		+	+ -
			0.01					26.2	25.1	27.7		+ -	+	+		+ -	+	E1.1		+		+	+
	weight of sample Comments	la la	0.01					35.2	35.1	31.1			-			-		51.1			31.0		

Comments

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co



Summary of Soil Analytical Results

Location Code	NEL-BH120	NEL-BH123	NEL-BH124	NEL-BH124	NEL-BH124	NEL-BH124	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125
Depth	1 - 1.1	0.1 - 0.2	0.1 - 0.2	0.5 - 0.6	1.1 - 1.2	1.5 - 1.6	0.4 - 0.5	0.4 - 0.5	0.75 - 0.85	0.75 - 0.85	1 - 1.1	1 - 1.1	1.5 - 1.6	1.5 - 1.6	3 - 3.1	3 - 3.1	4.5 - 4.6
Date	5/07/2018	22/02/2018	13/03/2018	13/03/2018	13/03/2018	13/03/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018	23/01/2018	23/01/2018	23/01/2018
Field ID	NEL-BH120_1.0m	NEL-BH123_0.1m	NEL-BH124_0.1m	NEL-BH124_0.5m	NEL-BH124_1.1m	NEL-BH124_1.5m	NEL-BH125_0.4m	NEL-BH125_0.4	NEL-BH125_0.75m	NEL-BH125_0.75	NEL-BH125_1.0m	NEL-BH125_1.0	NEL-BH125_1.5m	NEL-BH125_1.5	NEL_BH125_3.0m	NEL-BH125_3.0	NEL_BH125_4.5m
Sample Type	Normal Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal								
Lab Report Number	EM1810873	EM1803587	EM1804502	EM1804502	EM1804502	EM1804502	EM1801471	EM1803435	EM1801471	EM1803435	EM1801471	EM1803435	EM1801471	EM1803435	EM1801849	EM1803435	EM1801849

						Lab Report Number	EM1810873	EM1803587	EM1804502	EM1804502	EM1804502	EM1804502	EM1801471	EM1803435	EM1801471	EM1803435	EM1801471	EM1803435	EM1801471	EM1803435	EM1801849	EM1803435	EM1801849
						EPA Victoria IWRG 621																	
					EPA Victoria IWRG	Trigger for Leachate																	
	Unit	EQL	621 Category B	621 Category C	621 Clean Fill	Testing																	1
VOCs																							
TCE Tetrachloroethene	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	< 0.02	-	<0.02	-	<0.02	-	<0.02	-	<0.02	-	<0.02
trans-1,2-dichloroethene	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	<0.02	-	<0.02	-	<0.02	-	<0.02	-	<0.02
8VOCs	mg/kg	0.02					~0.02	~0.0Z	~0.02	~0.02	~0.02	~0.02	~0.02		~0.02		~0.0Z		~0.02		~0.02		~0.02
4,6-Dinitro-2-methylphenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5		<5	-	<5	-	<5	-	<5	-	<5
OC Pesticides																							+
Other organochlorine pesticides - Lab Calc	mg/kg	0.03					< 0.03	< 0.03			-	-		-			-	-	-	-	-		-
Organochlorine pesticides EPAVic	mg/kg	0.03			1		< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	<0.03		< 0.03	-	< 0.03	-	< 0.03		< 0.03
Other organochlorine pesticides EPAVic	mg/kg	0.03		10			-	-	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03		< 0.03	-	< 0.03	-	< 0.03		< 0.03
4,4-DDE	mg/kg	0.05					< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05
a-BHC	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03
Aldrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03		< 0.03	-	< 0.03	-	< 0.03		< 0.03
Aldrin + Dieldrin	mg/kg	0.03	4.8	1.2		0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03
b-BHC	mg/kg	0.03					<0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	-	< 0.03	-	< 0.03	-	<0.03	-	< 0.03	-	<0.03
Chlordane	mg/kg	0.03	16	4		2	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	<0.03	-	< 0.03	-	< 0.03
Chlordane (cis)	mg/kg	0.03					< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	<0.03	-	< 0.03	-	< 0.03
Chlordane (trans)	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	<0.03	-	< 0.03	-	< 0.03
d-BHC	mg/kg	0.03					<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03		< 0.03		< 0.03	-	<0.03	-	< 0.03		< 0.03
4,4 DDD	mg/kg	0.05					< 0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05		<0.05	-	< 0.05	-	<0.05	-	< 0.05		< 0.05
4,4 DDT	mg/kg	0.05					< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05		< 0.05		<0.05		< 0.05		< 0.05
DDT+DDE+DDD - Lab Calc	mg/kg	0.05	50	50		40	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	< 0.05		< 0.05	-	< 0.05		< 0.05		< 0.05
Dieldrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03
Endosulfan I	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03
Endosulfan II	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03
Endosulfan Sulfate	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03
Endrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03
Endrin aldehyde	mg/kg	0.03					< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03
g-BHC (Lindane)	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03
Heptachlor	mg/kg	0.03		1.2		0.6	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03
Heptachlor epoxide	mg/kg	0.03					< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	<0.03
Hexachlorobenzene	mg/kg	0.03					<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03
Methoxychlor	mg/kg	0.03					<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	-	<0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03
MAH																							
MAH (Sum of Total) Styrene	mg/kg	0.2					<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	<0.5	-	<0.5		<0.5
Total MAH	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 <0.2	-	<0.5	-	<0.5	-	<0.5	-	<0.5	_	<0.5
PCBs	mg/kg	0.2						-	<u.z< td=""><td><0.2</td><td><0.2</td><td>40.2</td><td><u.z< td=""><td>-</td><td><0.2</td><td>-</td><td><0.2</td><td>-</td><td><u.z< td=""><td>-</td><td><0.2</td><td>-</td><td><u.z< td=""></u.z<></td></u.z<></td></u.z<></td></u.z<>	<0.2	<0.2	40.2	<u.z< td=""><td>-</td><td><0.2</td><td>-</td><td><0.2</td><td>-</td><td><u.z< td=""><td>-</td><td><0.2</td><td>-</td><td><u.z< td=""></u.z<></td></u.z<></td></u.z<>	-	<0.2	-	<0.2	-	<u.z< td=""><td>-</td><td><0.2</td><td>-</td><td><u.z< td=""></u.z<></td></u.z<>	-	<0.2	-	<u.z< td=""></u.z<>
PCBs (Total)	mg/kg	0.1	0	0	2		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	-	<0.1	-	<0.1	-	<0.1		<0.1
Herbicides	inging	0.1	·		-		-0.1	-0.1	-0.1	-0.1	-0.1		-0.1		-0.1		-0.1	+	-0.1		-0.1		
Dinoseb	mg/kg	5					<5	<5	<5	<5	<5	<5	<5		<5		<5	-	<5		<5		<5
Chlorinated Hydrocarbons		Ť																					
Chlorinated hydrocarbons EPAVic	mg/kg	0.01			1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	0.11	-	< 0.01	-	<0.01	-	< 0.01
Other chlorinated hydrocarbons (Total)	mg/kg	0.01	50	10			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	< 0.01	-	0.11	-	< 0.01	-	<0.01		< 0.01
1,1,1,2-tetrachloroethane	mg/kg	0.01					<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01
1,1,1-trichloroethane	mg/kg	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01		< 0.01		<0.01	-	<0.01	-	< 0.01
1,1,2,2-tetrachloroethane	mg/kg	0.02					<0.02	< 0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	-	<0.02	-	<0.02	1 -	<0.02	-	<0.02	-	<0.02
1,1,2-trichloroethane	mg/kg	0.04					<0.04	< 0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	<0.04		<0.04	-	<0.04	-	< 0.04	-	<0.04
1,1-dichloroethene 1,2,4-trichlorobenzene	mg/kg mg/kg	0.01					<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	 	<0.01	+	<0.01		<0.01	-	<0.01
1,2,4-trichlorobenzene	mg/kg mg/kg	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01		<0.01	+ -	<0.01	+ - : -	<0.01		<0.01
1,2-dichloroethane	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02		<0.02	+ :	<0.02	+ :	<0.02	+ :	<0.02
1,4-dichlorobenzene	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	<0.02		<0.02	-	<0.02	-	<0.02		<0.02
Carbon tetrachloride	mg/kg	0.01					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		<0.01		< 0.01	-	< 0.01	-	< 0.01		< 0.01
Chlorobenzene	mg/kg	0.02					<0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02		< 0.02	-	< 0.02	-	<0.02	-	<0.02		<0.02
Chloroform	mg/kg	0.02					< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	-	< 0.02	-	< 0.02	-	< 0.02	-	< 0.02		<0.02
cis-1,2-dichloroethene	mg/kg	0.01					<0.01	<0.01	<0.01	< 0.01	< 0.01	<0.01	<0.01	-	<0.01	-	< 0.01	-	<0.01	-	< 0.01	-	<0.01
Dichloromethane	mg/kg	0.4					<0.4	<0.4	<0.4	< 0.4	< 0.4	<0.4	<0.4	-	<0.4	-	<0.4	-	<0.4	-	<0.4		<0.4
Hexachlorobutadiene	mg/kg	0.02		2.8		1.4	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	-	< 0.02		<0.02	-	< 0.02	-	< 0.02		< 0.02
Vinyl chloride	mg/kg	0.02	4.8	1.2		0.6	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	<0.02	-	<0.02	1 -	< 0.02	-	<0.02	-	<0.02
Asbestos Asbestos Datestod	-	0.4						-	1	+	+	+	No	-	No	+	No	+	Mot	+	Me		No
Asbestos Detected Asbestos (Trace)	g Fibres	0.1					-		-	-	-	-	No No	<u> </u>	No No		No No	+ -	No*	+ -	No No		No No
Asbestos (Irace) Asbestos Type	ribres	- 0							+ -	+	+	+	NO	<u> </u>	NO	 	IND	+	Ch + Am + Cr	+	IND		IND
weight of sample	-	0.01							+ - : -	+ :-	+	+ :	192	-	49.9		101	+ -	163	+ -	83.5		104
Comments	ia	0.01							-				102		40.0	· · ·	101		103		03.0		104
	4 allea bu nalar				no motorial was datasta																		

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co



Summary of Soil Analytical Results

Location Code	NEL-BH126	NEL-BH126	NEL-BH126	NEL-BH126	NEL-BH126	NEL-BH126	NEL-BH126	NEL-BH127	NEL-BH127	NEL-BH127	NEL-BH127	NEL-BH127	NEL-BH127	NEL-BH127	NEL-BH128	NEL-BH128A	NEL-BH128A
Depth	0.3 - 0.4	0.3 - 0.4	0.7 - 0.8	1 - 1.1	1.5 - 1.6	2 - 2.1	3 - 3.1	0.25 - 0.35	0.6 - 0.7	1.05 - 1.15	1.5 - 1.6	2 - 2.1	2.5 - 2.6	3 - 3.1	0.5 - 0.6	0.23 - 0.33	0.23 - 0.33
Date	17/01/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018	31/01/2018	31/01/2018	30/01/2018	30/01/2018	30/01/2018	30/01/2018	31/01/2018	31/01/2018	31/01/2018	15/01/2018	30/01/2018	30/01/2018
Field ID	NEL-BH126_0.3m	NEL-BH126_0.3	NEL-BH126_0.7m	NEL-BH126_1.0m	NEL-BH126_1.5m	NEL-BH126_2.0	NEL-BH126_3.0	NEL-BH127_0.25m	NEL-BH127_0.6m	NEL-BH127_1.05m	NEL-BH127_1.50m	NEL-BH127_2.0m	NEL-BH127_2.5m	NEL-BH127_3.0m	NEL-BH128_0.5m	NEL-BH128A_0.23	NEL-BH128A_0.23m
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Lab Report Number	EM1801471	EM1803435	EM1801471	EM1801471	EM1801471	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1801471	EM1803435	EM1802245

						Lab Report Number	EM1801471	EM1803435	EM1801471	EM1801471	EM1801471	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1802245	EM1801471	EM1803435	EM1802245
	Unit	FOI		EPA Victoria IWRG 621 Category C	EPA Victoria IWRG 621 Clean Fill	EPA Victoria IWRG 621 Trigger for Leachate Teeting																	
VOCs			un outage, ju	on only o	our olouit in	T-County		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TCE	mg/kg	0.02					< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02
Tetrachloroethene	mg/kg	0.02					< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	-	<0.02
trans-1,2-dichloroethene	mg/kg	0.02					< 0.02	-	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	-	< 0.02
SVOCs																							
4,6-Dinitro-2-methylphenol	mg/kg	5					<5	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5
OC Peeticides																							
Other organochlorine pesticides - Lab Calc	mg/kg	0.03					-	-	-		-	-	-	-	-	-	-	-	-	-		-	-
Organochlorine pesticides EPAVic	mg/kg	0.03			1		< 0.03	-	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	< 0.03
Other organochlorine pesticides EPAVic	mg/kg	0.03	50	10			<0.03	-	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03		<0.03
4,4-DDE	mg/kg	0.05					<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
a-BHC	mg/kg	0.03					<0.03	-	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03		<0.03
Aldrin	mg/kg	0.03					-0.00	-	-0.00	-0.00	-0.00	-0.00	< 0.03	-0.00	-0.00	-0.00	-0.00	< 0.03	-0.00	< 0.03	-0.00		-0.00
Aldrin + Dieldrin	mg/kg	0.03	4.8	1.2		0.6	<0.03	-	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03		< 0.03
b-BHC	mg/kg	0.03					<0.03	-	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	-	< 0.03
Chlordane	mg/kg	0.03	16	4		2	<0.03	-	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	<0.03
Chlordane (cis)	mg/kg	0.03					<0.03	-	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	-	<0.03
Chlordane (trans)	mg/kg	0.03					< 0.03	-	<0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	-	<0.03
d-BHC	mg/kg	0.03						-	<0.03	<0.03	< 0.03	<0.03			<0.03	<0.03	<0.03	<0.03	<0.03			-	
4,4 DDD	mg/kg	0.05					<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
4,4 DDT	mg/kg	0.05	50			40	<0.05	-	< 0.05	<0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	+	<0.05
DDT+DDE+DDD - Lab Calc	mg/kg	0.05	50	50		40	< 0.05	-	<0.05	<0.05	< 0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05	<0.05 <0.03	< 0.05	<0.05	< 0.05	<0.05	-	<0.05
	mg/kg	0.03																					
Endosulfan I	mg/kg	0.03					<0.03	-	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	<0.03
Endosulfan II	mg/kg	0.03					<0.03		<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03		<0.03
Endosulfan Sulfate	mg/kg	0.03					<0.03	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	<0.03
Endrin	mg/kg	0.03					<0.03	-	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	<0.03
Endrin aldehyde	mg/kg	0.03					<0.03	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	<0.03
g-BHC (Lindane)	mg/kg	0.03	4.0	1.2		0.6	-0.00	-	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-	-0.00
Heptachlor enoxide	mg/kg	0.03	4.8	1.2		0.0	<0.03	_	< 0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	-	<0.03
	mg/kg	0.03					<0.03	_	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	<0.03
Hexachlorobenzene Methoxychlor	mg/kg	0.03					< 0.03	-	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	<0.03 <0.03
Methoxychior MAH	mg/kg	0.03					<0.03	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	<0.03
MAH (Sum of Total)	mg/kg	0.2													_		_				_		_
Styrene	mg/kg	0.5					×0.5		<0.5	r0.5	×0.5	r0.5	rn 5	r0.5	<0.5	r0.5	rn 5	r0.5	×0.5	×0.5	×0.5		r0.5
Total MAH□	mg/kg	0.2					<0.2		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2
PCBs																							
PCBs (Total)	mg/kg	0.1	0	0	2		< 0.1		< 0.1	< 0.1	< 0.1	<0.1	< 0.1	<0.1	< 0.1	< 0.1	<0.1	< 0.1	< 0.1	< 0.1	<0.1	-	<0.1
Herbicides																							
Dinoseb	mg/kg	5					<5	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	-	<5
Chlorinated Hydrocarbons																							
Chlorinated hydrocarbons EPAVic	mg/kg	0.01			1		<0.01	-	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	-	<0.01
Other chlorinated hydrocarbons (Total)	mg/kg	0.01	50	10			< 0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01	-	<0.01
1,1,1,2-tetrachloroethane	mg/kg	0.01					<0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	-	< 0.01
1,1,1-trichloroethane	mg/kg	0.01					<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01
1,1,2,2-tetrachloroethane 1,1,2-trichloroethane	mg/kg mg/kg	0.02					<0.02	 	<0.02	<0.02 <0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02 <0.04	<0.02	<0.02	<0.02 <0.04	<0.02	+ -	<0.02 <0.04
1,1-dichloroethene	mg/kg mg/kg	0.04					<0.04	 	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	+ :-	<0.04
1,2,4-trichlorobenzene	mg/kg	0.01					<0.01	+ :-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	+ :	<0.01
1.2-dichlorobenzene	mg/kg	0.01					<0.02	+ :	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	1	<0.02
1,2-dichloroethane	mg/kg	0.02					<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	<0.02
1,4-dichlorobenzene	mg/kg	0.02					<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	-	<0.02
Carbon tetrachloride	mg/kg	0.01					<0.01	-	<0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	-	< 0.01
Chlorobenzene	mg/kg	0.02					<0.02		<0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	-	< 0.02
Chloroform	mg/kg	0.02					<0.02	-	<0.02	< 0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	<0.02
cis-1,2-dichloroethene	mg/kg	0.01					< 0.01		<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	-	< 0.01
Dichloromethane	mg/kg	0.4					<0.4	-	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	< 0.4	<0.4	< 0.4	<0.4	<0.4	<0.4	-	<0.4
Hexachlorobutadiene	mg/kg	0.02	11	2.8		1.4	<0.02	-	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	-	<0.02
Vinyl chloride	mg/kg	0.02	4.8	1.2		0.6	<0.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	-	<0.02
									1	1			- 1	1	1	1		1			1	1	1
Asbestos								_			+												
Asbestos Detected	9	0.1					No		No	No	No	No	No	No	No	No	No	No	No	No	No		No
Asbestos Detected Asbestos (Trace)	g Fibres	0.1					No No	:	No No	No No	No No	No No	No No	No No	No No	No No	No No	No No	No No	No No	No No	-	No No
Asbestos Detected	9	0.1						:														-	

Comments

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co



Summary of Soil Analytical Results

Location Co.	de	NEL-BH128A	NEL-BH128A	NEL-BH128A	NEL-BH128A	NEL-BH131	NEL-BH131	NEL-BH132	NEL-BH132	NEL-BH133	NEL-BH133	NEL-BH135	NEL-BH135	NEL-BH137	NEL-BH137	NEL-BH137	NEL-BH137	NEL-BH137
Depth		0.45 - 0.55	0.9 - 1	1.2 - 1.3	1.2 - 1.3	0.1 - 0.2	0.5 - 0.6	0.1 - 0.2	1 - 1.1	0.1 - 0.2	1 - 1.1	0.2 - 0.3	1 - 1.1	0.1 - 0.2	0.1 - 0.2	0.1 - 0.2	0.7 - 0.8	1.2 - 1.3
Date		30/01/2018	30/01/2018	30/01/2018	30/01/2018	20/03/2018	20/03/2018	20/03/2018	20/03/2018	20/03/2018	20/03/2018	25/06/2018	25/06/2018	22/02/2018	22/02/2018	22/02/2018	22/02/2018	22/02/2018
Fleid ID		NEL-BH128A_0.45m	NEL-BH128A_0.9m	NEL-BH128A_1.2m	NEL-BH128A_1.2	NEL-BH131_0.1m	NEL-BH131_0.5m	NEL-BH132_0.1m	NEL-BH132_1.0m	NEL-BH133_0.1m	NEL-BH133_1.0m	NEL-BH135_0.2m	NEL-BH135_1.0m	NEL-BH137_0.1m	QC1000	QC2000	NEL-BH137_0.7m	NEL-BH137_1.2m
Sample Type		Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Field_D	Normal	Normal
Lab Report P	Number	EM1802245	EM1802245	EM1802245	EM1803435	EM1805002	EM1805002	EM1805002	EM1805002	EM1805002	EM1805002	EM1810219	EM1810219	EM1803587	EM1803587	EM1803587	EM1803587	EM1803587

						Lab Report Number	EM1802245	EM1802245	EM1802245	EM1803435	EM1805002	EM1805002	EM1805002	EM1805002	EM1805002	EM1805002	EM1810219	EM1810219	EM1803587	EM1803587	EM1803587	EM1803587	EM1803587
						EPA Victoria IWRG 621 Trigger for Leachate																	
	Unit	EQL	621 Category B	621 Category C	621 Clean Fill	Testing		1	1						i				1		i i		i
/OCs		-																					
TCE	mg/kg	0.02					< 0.02	<0.02	<0.02	-	< 0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	<0.02	<0.02
Tetrachloroethene	mg/kg	0.02					<0.02	<0.02	<0.02		< 0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02
trans-1,2-dichloroethene	mg/kg	0.02					<0.02	<0.02	<0.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
VOCs		5													<5		<5					<5	
4,6-Dinitro-2-methylphenol	mg/kg	5					<5	<5	<5	-	<5	<5	<5	<5	< >	<5	< >	<5	<5	<5	<5	<5	<5
OC Peeticides		-															en n3	en n3	±0.03	en n3	en n3	≠n n3	<0.03
Other organochlorine pesticides - Lab Calc	mg/kg	0.03							-	-	-		-	-	-	_	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
Organochlorine pesticides EPAVic	mg/kg	0.03			1		< 0.03	< 0.03	0.60		< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03
Other organochlorine pesticides EPAVic	mg/kg	0.03	50	10			< 0.03	<0.03	<0.03	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	-	-	-	-	-	-
4,4-DDE	mg/kg	0.05					<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	< 0.05	< 0.05	<0.05	< 0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05
a-BHC	mg/kg	0.03					<0.03	<0.03	<0.03	-	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03
Aldrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03		< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Aldrin + Dieldrin	mg/kg	0.03	4.8	1.2		0.6	< 0.03	< 0.03	< 0.03	-	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03
b-BHC	mg/kg	0.03					< 0.03	< 0.03	< 0.03	-	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03
Chlordane	mg/kg	0.03	16	4		2	< 0.03	< 0.03	< 0.03	-	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chlordane (cis)	mg/kg	0.03					< 0.03	< 0.03	< 0.03	-	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chlordane (trans)	mg/kg	0.03					< 0.03	< 0.03	< 0.03	-	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
d-BHC	mg/kg	0.03					< 0.03	< 0.03	<0.03	-	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03
4,4 DDD	mg/kg	0.05					< 0.05	< 0.05	0.60		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4,4 DDT	mg/kg	0.05					<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDT+DDE+DDD - Lab Calc	mg/kg	0.05	50	50		40	<0.05	<0.05	0.60	-	<0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05	<0.05
Dieldrin	mg/kg	0.03					<0.03	<0.03	<0.03	+ :	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan I	mg/kg	0.03					<0.03	<0.03	<0.03	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan II		0.03					<0.03	<0.03	<0.03	_	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
	mg/kg	0.03					<0.03	<0.03	<0.03	-	<0.03 ≠0.03	<0.03	<0.03 en.na	<0.03	<0.03 ≠0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan Sulfate	mg/kg							<0.03	-0.00	-	-0.00		-0.00		-0.00			-0.00		-0.00	-0.00		
Endrin	mg/kg	0.03					<0.03		< 0.03		< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03
Endrin aldehyde	mg/kg	0.03					<0.03	<0.03	<0.03		<0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03
g-BHC (Lindane)	mg/kg	0.03					< 0.03	< 0.03	< 0.03	-	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Heptachlor	mg/kg	0.03		1.2		0.6	< 0.03	< 0.03	<0.03		< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03
Heptachlor epoxide	mg/kg	0.03					< 0.03	< 0.03	< 0.03	-	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03
Hexachlorobenzene	mg/kg	0.03					< 0.03	< 0.03	< 0.03	-	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03
Methoxychlor	mg/kg	0.03					< 0.03	< 0.03	< 0.03	-	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03
MAH																							
MAH (Sum of Total)	mg/kg	0.2					-	-	-		-				-	-	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2
Styrene	mg/kg	0.5					<0.5	< 0.5	< 0.5		< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5
Total MAH□	mg/kg	0.2					<0.2	< 0.2	< 0.2	-	< 0.2	< 0.2	<0.2	< 0.2	<0.2	< 0.2	-	-	-	-	-	-	-
PCBs																							
PCBs (Total)	mg/kg	0.1	0	0	2		<0.1	< 0.1	< 0.1		< 0.1	< 0.1	<0.1	< 0.1	<0.1	< 0.1	<0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	<0.1
Herbloides																							
Dinoseb	mg/kg	5					<5	<5	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorinated Hydrocarbons																							
Chlorinated hydrocarbons EPAVic	mg/kg	0.01			1		< 0.01	< 0.01	< 0.01	-	<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01
Other chlorinated hydrocarbons (Total)	mg/kg	0.01	50	10			<0.01	< 0.01	<0.01	-	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	<0.01
1,1,1,2-tetrachloroethane	mg/kg	0.01					< 0.01	< 0.01	< 0.01	-	< 0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	mg/kg	0.01					< 0.01	< 0.01	< 0.01	-	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01
1,1,2,2-tetrachloroethane	mg/kg	0.02					<0.02	<0.02	<0.02	-	< 0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02
1,1,2-trichloroethane	mg/kg	0.04					<0.04	<0.04	<0.04	-	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04
1,1-dichloroethene	mg/kg	0.01					<0.01	<0.01	< 0.01	-	< 0.01	<0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	<0.01
1,2,4-trichlorobenzene	mg/kg	0.01					< 0.01	< 0.01	<0.01	-	< 0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	< 0.01
1,2-dichlorobenzene	mg/kg	0.02					<0.02	<0.02	<0.02	-	< 0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02
1,2-dichloroethane	mg/kg	0.02					<0.02	<0.02	<0.02	-	< 0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,4-dichlorobenzene	mg/kg	0.02					<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon tetrachloride	mg/kg	0.01					< 0.01	< 0.01	< 0.01	-	< 0.01	<0.01	<0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01
Chloroform	mg/kg	0.02					<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Onlordonii	mg/kg	0.02					-0.02	<0.02	-0.02	-	<0.02	<0.02	-0.02	-0.02	<0.02	-0.02	-0.02	-0.02	<0.02	-0.02	-0.02	-0.02	-0.02
cis-1,2-dichloroethene	mg/kg	0.01					<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dichloromethane Hexachlorohutadiene	mg/kg	0.4	11	2.8		14	<0.4	<0.4	<0.4		<0.4	<0.4 <0.02	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
	mg/kg	0.02						-0.02		-						-0.02	<0.02				-0.02		
Vinyl chloride	mg/kg	0.02	4.8	1.2		0.6	<0.02	<0.02	<0.02	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02
	1	١						I	—			1	1			1							
							No	No	No	-		-	-	-		-		-	-	-	-	-	-
Asbestos Detected	9	0.1																					
Asbestos Detected Asbestos (Trace)	g Fibres	5					No	No	No	-			-		-		-		-	-	-	-	-
Asbestos Detected	g Fibres	0.1					No - 21.6	No - 29.3	- 29.8	-					- :						- :		-

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co

GHD 3135006 27



Summary of Soil Analytical Results

Location Code	NEL-BH137	NEL-BH138	NEL-BH138	NEL-BH138	NEL-BH140	NEL-BH140	NEL-BH140	NEL-BH140	NEL-BH140	NEL-BH140	NEL-BH141	NEL-BH141	NEL-BH142	NEL-BH142	NEL-BH143	NEL-BH143	NEL-BH144
Depth	1.5 - 1.6	0.35 - 0.45	1 - 1.1	1.5 - 1.6	0.2 - 0.3	0.5 - 0.6	1 - 1.1	4.5 - 4.6	6 - 6.1	7.95 - 8.05	0.2 - 0.3	0.7 - 0.8	0.2 - 0.3	1 - 1.1	0.2 - 0.3	1 - 1.1	0.1 - 0.2
Date	22/02/2018	5/06/2018	5/06/2018	5/06/2018	27/02/2018	27/02/2018	27/02/2018	28/02/2018	28/02/2018	28/02/2018	2/07/2018	2/07/2018	3/07/2018	3/07/2018	4/07/2018	4/07/2018	17/05/2018
Fleid ID	NEL-BH137_1.5m	NEL-BH138_0.35m	NEL-BH138_1.0m	NEL-BH138_1.5m	NEL-BH140_0.2m	NEL-BH140_0.5m	NEL-BH140_1.0m	NEL-BH140_4.5m	NEL-BH140_6.0m	NEL-BH140_7.95m	NEL-BH141_0.2m	NEL-BH141_0.75m	NEL-BH142_0.2m	NEL-BH142_1.0m	NEL-BH143_0.2m	NEL-BH143_1.0m	NEL-BH144_0.1m
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Lab Report Number	EM1803587	EM1809234	EM1809234	EM1809234	EM1803724	EM1803724	EM1803724	EM1803919	EM1803919	EM1803919	EM1810580	EM1810580	EM1810780	EM1810780	EM1810779	EM1810779	EM1808218

STATE STATE OF STATE							Lab Report Number	EM1803587	EM1809234	EM1809234	EM1809234	EM1803724	EM1803724	EM1803724	EM1803919	EM1803919	EM1803919	EM1810580	EM1810580	EM1810780	EM1810780	EM1810779	EM1810779	EM1808218
Secretary 1		Unit	FOL				Trigger for Leachate																	
STATE STATE OF STATE	VOCs	-		on outside the	on onegary o	on count in	Tooling	t	1	1	1	1	1	1	1	1	1	I	1	1	1	1	1	1
March Marc		mg/kg	0.02					< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Column C	Tetrachloroethene	mg/kg	0.02					< 0.02		< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Column C		mg/kg	0.02					< 0.02	<0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02
Change C	SVOCs																							
Company		mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Company contains part Comp																								
The property of the property o												-	-	-	-	-	-							
ACC				50	10	1			<0.03	<0.03	<0.03							<0.03	<0.03	0.09	<0.03	<0.03	<0.03	<0.03
Second S				30	10				en ns	en ns	×0.05							r0.05	e0.05	0.00	en ns	en ns	en ns	en ns
March Marc																								
Section Sect																								
126C 194 10 10 10 10 10 10 10 1	Aldrin + Dieldrin			4.8	12		0.6	e0.03	<0.00	r0.03	±0.03	±0.00	r0.03	<0.03	r0.03	<0.03	r0.03	×0.00	r0.03	<0.03	r0.03	r0.03	<0.00	r0.03
Section																								
Company Print Company Compan	Chlordane		0.03	16	4		2	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Second Property 1989 1																								
Second Part Second Par										< 0.03		< 0.03			< 0.03	< 0.03	< 0.03			< 0.03	< 0.03		< 0.03	
Table Tabl	d-BHC							< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Second Column	4,4 DDD									< 0.05					< 0.05	<0.05	<0.05		< 0.05		<0.05	<0.05	< 0.05	
Company Comp		mg/kg	0.05					< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	< 0.05
Company Comp	DDT+DDE+DDD - Lab Calc			50	50		40	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05			<0.05	< 0.05	< 0.05			<0.05		< 0.05
Control Cont	Dieldrin	mg/kg										< 0.03				< 0.03				< 0.03			< 0.03	
Processor Proc	Endosulfan I	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
See	Endosulfan II	mg/kg						< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03
Case cuttoring		mg/kg														<0.03								
98C. Cholery 99G. 201 143 152 153 154 154 154 155 155 155 155 155 155 155																								
Page																								
Pigelone option Pigelone Pi								<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03
Teachers Part 10 10 10 10 10 10 10 1				4.8	1.2		0.6														0.00			
Part																								
Method Tayl) Page 12 1 1 1 1 1 1 1 1 1																								
Miles Margin Ma		mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Sympo		malka	0.2					<0.2	×0.2	-0.2	×0.2					_		-0.2	-0.2	-0.2	-0.2	-0.0	<0.2	×0.2
Tail MACC Mph 0.7												-0.5	<0.5	-0.5	-0.5	-0.5								
Contract France								-0.0	-0.0	-0.0	-0.0	<0.0	<0.2	<0.0	<0.0	<0.0	<0.2	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
PORT (Table) mg/s 01 01 01 01 01 01 01 0	PCBs		-																					
Process Proc		mg/kg	0.1	0	0	2		< 0.1	< 0.1	< 0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Commonted Physical	Herbicides																							
Characteristration production (Production of Production		mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chee character (Table) Chee Character (Tab																								
1.1.1 decisione chare						1																		
1.1.1 1.1.1 1.1.2 1.1.				50	10																			
1.1.2 Articolocombane mg/kg 0.02																								
1.7. Additionate mg/ng 0.04																								
1.1-definitioned from mg/kg 0.01																<0.04								
1_2-definisheramene	1,1-dichloroethene	mg/kg	0.01					< 0.01	<0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1.2-definitionember mg/kg 0.2		mg/kg																						
1.4 definitementation 1.4																								
Carbon tetachoride mg/kg 0.01																								
Observation Confidence Co																								
Chordom Charles Char																								
GS 52 deMondePrier Gylig D51 GS 1 GS																-0.02								
Definition Def																<0.02								
Hexachrobustedere mpkg 0.02 11 2.8 1.4 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.														<0.4		<0.4				<0.4				
Very deficiele mg/s	Hexachlorobutadiene			11	2.8		1.4	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02
Albesto Defected 9 0.1	Vinyl chloride			4.8			0.6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	
Abelisis Tipe 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Asbestos																							
Abbesto Type		g	0.1					-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
weight of sample g 0.01		Fibres	5					-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	weight of sample Comments	9	0.01						1 .	-	-		-		-		-		-	-	-	-		-

Comments

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co



Summary of Soil Analytical Results

Location Code	NEL-BH144	NEL-BH150	NEL-BH150	NEL-BH151	NEL-BH151	NEL-BH151	NEL-BH151	NEL-BH155	NEL-BH155	NEL-BH156	NEL-BH156	NEL-BH159	NEL-BH159	NEL-BH161	NEL-BH161	NEL-BH162	NEL-BH162
Depth	1 - 1.1	0.1 - 0.2	1 - 1.1	0.1 - 0.2	1 - 1.1	1.5 - 1.6	1.5 - 1.6	0.2 - 0.3	1 - 1.1	0.1 - 0.2	0.5 - 0.6	0.2 - 0.3	1.5 - 1.6	0.2 - 0.3	0.5 - 0.6	0.2 - 0.3	1 - 1.1
Date	17/05/2018	23/03/2018	23/03/2018	23/03/2018	23/03/2018	23/03/2018	23/03/2018	31/05/2018	31/05/2018	24/05/2018	24/05/2018	14/05/2018	14/05/2018	13/06/2018	13/06/2018	6/06/2018	6/06/2018
Field ID	NEL-BH144_1.0m	NEL-BH150_0.1m	NEL-BH150_1.0m	NEL-BH151_0.1m	NEL-BH151_1.0m	NEL-BH151_1.5m	QC1001	NEL-BH155_0.2m	NEL-BH155_1.0m	NEL-BH156_0.1m	NEL-BH156_0.5m	NEL-BH159_0.2m	NEL-BH159_1.5m	NEL-BH161_0.2m	NEL-BH161_0.5m	NEL-BH162_0.2m	NEL-BH162_1.0m
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal									
Lab Report Number	EM1808218	EM1805158	EM1805158	EM1805158	EM1805158	EM1805857	EM1805158	EM1808885	EM1808885	EM1808553	EM1808553	EM1807877	EM1807877	EM1809532	EM1809532	EM1809233	EM1809233

						Lab Report Number	EM1808218	EM1805158	EM1805158	EM1805158	EM1805158	EM1805857	EM1805158	EM1808885	EM1808885	EM1808553	EM1808553	EM1807877	EM1807877	EM1809532	EM1809532	EM1809233	EM1809233
						EPA Victoria IWRG 621																	
					EPA Victoria IWRG	Trigger for Leachate																	
	Unit	EQL	621 Category B	621 Category C	621 Clean Fill	Testing			1		i .		1		i		i					1	
VOCs TCE	mg/kg	0.02					-0.00	-0.00	-0.00	-0.00	<0.02	<0.02	-0.00	-0.00	-0.00	-0.00	-0.00	< 0.02	-0.00	-0.00	<0.02	-0.00	-0.00
Tetrachloroethene	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02 <0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02 <0.02	<0.02	<0.02	<0.02
trans-1,2-dichloroethene	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SVOCs	inging	0.02					-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
4,6-Dinitro-2-methylphenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
OC Pesticides	Ť																						1
Other organochlorine pesticides - Lab Calc	mg/kg	0.03					< 0.03	-	-		-		-	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Organochlorine pesticides EPAVic	mg/kg	0.03			1		< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Other organochlorine pesticides EPAVic	mg/kg	0.03	50	10			-	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-	-	-	-	-	-	-	-	-	-
4,4-DDE	mg/kg	0.05					< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Aldrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Aldrin + Dieldrin	mg/kg	0.03	4.8	1.2		0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
b-BHC	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chlordane	mg/kg	0.03	16	4		2	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chlordane (cis)	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03
Chlordane (trans)	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03
d-BHC	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03
4,4 DDD	mg/kg	0.05					<0.05	<0.05	<0.05	< 0.05	<0.05	< 0.05	<0.05	< 0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05
4,4 DDT	mg/kg	0.05					< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDT+DDE+DDD - Lab Calc	mg/kg	0.05	50	50		40	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03
Endosulfan I	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Endosulfan II	mg/kg	0.03					< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03
Endosulfan Sulfate	mg/kg	0.03					< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03
Endrin	mg/kg	0.03					<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03
Endrin aldehyde	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03
g-BHC (Lindane)	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03
Heptachlor	mg/kg	0.03	4.8	1.2		0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03
Heptachlor epoxide	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03
Hexachlorobenzene	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03
Methoxychlor	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03
MAH (Sum of Total)	_	0.2					<0.2							<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MAH (Sum of Total) Styrene	mg/kg mg/kg	0.2					<0.2 <0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 <0.5	<0.2
Total MAH□		0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PCBs	mg/kg	0.2					-	40.2	<u.z< td=""><td><0.2</td><td><u.z< td=""><td><0.2</td><td><u.z< td=""><td></td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>+</td></u.z<></td></u.z<></td></u.z<>	<0.2	<u.z< td=""><td><0.2</td><td><u.z< td=""><td></td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>+</td></u.z<></td></u.z<>	<0.2	<u.z< td=""><td></td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>+</td></u.z<>			-	-	-	-	-	-	-	+
PCBs (Total)	mg/kg	0.1	0	0	2		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Herbicides	inging	0.1			-		-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	
Dinoseb	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorinated Hydrocarbons																							_
Chlorinated hydrocarbons EPAVic	mg/kg	0.01			1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Other chlorinated hydrocarbons (Total)	mg/kg	0.01	50	10			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	mg/kg	0.01					< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01	<0.01	< 0.01
1,1,1-trichloroethane	mg/kg	0.01					< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01
1,1,2,2-tetrachloroethane	mg/kg	0.02					<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02
1,1,2-trichloroethane	mg/kg	0.04					<0.04 <0.01	<0.04 <0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,1-dichloroethene 1,2,4-trichlorobenzene	mg/kg mg/kg	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2,4-trichlorobenzene	mg/kg mg/kg	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1.2-dichloroethane	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,4-dichlorobenzene	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon tetrachloride	mg/kg	0.01					< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01
Chlorobenzene	mg/kg	0.02					<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	< 0.02	< 0.02	<0.02	< 0.02
Chloroform	mg/kg	0.02					<0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	< 0.02
cis-1,2-dichloroethene	mg/kg	0.01					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dichloromethane	mg/kg	0.4					<0.4	< 0.4	< 0.4	< 0.4	<0.4	<0.4	< 0.4	< 0.4	<0.4	< 0.4	<0.4	<0.4	<0.4	< 0.4	< 0.4	<0.4	<0.4
Hexachlorobutadiene	mg/kg	0.02		2.8		1.4	<0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	< 0.02
Vinyl chloride	mg/kg	0.02	4.8	1.2		0.6	<0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02
Asbestos		-						1										1					
Asbestos Detected	9	0.1					-	· ·	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
Asbestos (Trace) Asbestos Type	Fibres	5					-		+ -	+ -				+	+	+ -	-		 		-		+
Asbestos Type weight of sample		0.01					-	+	+ -	+		 	+ -		+	+ -	+ -	+	+ -	-	+ -	+	+
	19	0.01															· ·	<u> </u>					
Comments				omion staining. Ashasta																			

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co



Summary of Soil Analytical Results

Location Code	NEL-BH163	NEL-BH163	NEL-BH163	NEL-BH164	NEL-BH164	NEL-BH165	NEL-BH165	NEL-BH166	NEL-BH166	NEL-BH167	NEL-BH167	NEL-BH172	NEL-BH174	NEL-BH174	NEL-BH177	NEL-BH177	NEL-BH178
Depth	0.2 - 0.3	0.2 - 0.3	1 - 1.1	0.2 - 0.3	0.5 - 0.6	0.2 - 0.3	0.5 - 0.6	0.5 - 0.6	1.5 - 1.6	0.2 - 0.3	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1 - 1.1	0.2 - 0.3
Date	13/06/2018	13/06/2018	13/06/2018	13/06/2018	13/06/2018	6/06/2018	6/06/2018	3/07/2018	3/07/2018	6/07/2018	6/07/2018	29/06/2018	5/07/2018	5/07/2018	29/06/2018	29/06/2018	5/07/2018
Fleid ID	NEL-BH163_0.2m	QC1005	NEL-BH163_1.0m	NEL-BH164_0.2m	NEL-BH164_0.5m	NEL-BH165_0.2m	NEL-BH165_0.5m	NEL-BH166_0.5m	NEL-BH166_1.5m	NEL-BH167_0.2m	NEL-BH167_0.5m	NEL-BH172_0.5m	NEL-BH174_0.5m	NEL-BH174_1.5m	NEL-BH177_0.5m	NEL-BH177_1.0m	NEL-BH178_0.2m
Sample Type	Normal	Field_D	Normal														
Lab Report Number	EM1809532	EM1809532	EM1809532	EM1809532	EM1809532	EM1809233	EM1809233	EM1810780	EM1810780	EM1810871	EM1810871	EM1810581	EM1810873	EM1810873	EM1810581	EM1810581	EM1810873

-						Lab Report Number	EM1809532	EM1809532	EM1809532	EM1809532	EM1809532	EM1809233	EM1809233	EM1810780	EM1810780	EM1810871	EM1810871	EM1810581	EM1810873	EM1810873	EM1810581	EM1810581	EM1810873
	Unit				EPA Victoria IWRG 621 Clean Fill	EPA Victoria IWRG 621 Trigger for Leachate Testing																	
VOCs								1	1	1	1	I	1	1	1	1	1	1	1	1	1	1	1
TCE	mg/kg	0.02					< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02
Tetrachloroethene	mg/kg	0.02					< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02
trans-1,2-dichloroethene	mg/kg	0.02					< 0.02	<0.02	< 0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02
SVOCs																							
4,6-Dinitro-2-methylphenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
OC Peeticides																							
Other organochlorine pesticides - Lab Calc	mg/kg	0.03					<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03
Organochlorine pesticides EPAVic	mg/kg	0.03			1		< 0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03
Other organochlorine pesticides EPAVic	mg/kg	0.03	50	10			-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	<0.05	-0.05
4,4-DDE a-BHC	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05 <0.03	<0.05	<0.05 <0.03	<0.05	<0.05	<0.05	<0.05	<0.03	< 0.05
a-BHC Aldrin	mg/kg						<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Aldrin + Dieldrin	mg/kg mg/kg	0.03	4.8	1.2		0.6	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	<0.03	-0.00	-0.00	<0.03	-0.00	-0.00	-0.00	-0.00	<0.03	-0.00
		0.03	4.0	1.2		0.6	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03
b-BHC	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03
Chlordane Chlordane (cis)	mg/kg	0.03	16	4		2	< 0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03
Chlordane (cis)	mg/kg	0.03					< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
d-BHC	mg/kg mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
4.4 DDD		0.03																					
4,4 DDD 4,4 DDT	mg/kg						<0.05	<0.05 <0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDT+DDE+DDD - Lab Calc	mg/kg	0.05	50	50		40	<0.05	<0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 <0.05	<0.05	<0.05			<0.05	<0.05	<0.05 <0.05	<0.05
Dieldrin	mg/kg	0.05	50	50		40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan I	mg/kg	0.03											0.00			-0.00	-0.00		<0.03			-0.00	
Endosulfan II Endosulfan Sulfate	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03 <0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Endosultan Sultate Endrin	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Endrin aldehyde	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
	mg/kg mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03 en.na	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03 <0.03	<0.03	<0.03	<0.03
g-BHC (Lindane) Heptachlor	mg/kg mg/kg	0.03	4.8	1.2		0.6	-0.00	~0.03	-0.00	-0.00		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	+
Heptachlor epoxide	mg/kg mg/kg	0.03	4.0	1.2		0.6	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03 <0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03
Hexachlorobenzene		0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Methoxychlor	mg/kg mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
MAH	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
MAH (Sum of Total)	mg/kg	0.2					<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	< 0.2	<0.2
Styrene	mg/kg	0.5					×0.5	r0.5	r0.5	r0.5	r0.5	r0.5	r0.5	r0.5	r0.5	r0.5	r0.5	r0.5	r0.5	r0.5	r0.5	r0.5	r0.5
Total MAH□	mg/kg	0.2					-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
PCBs		-																					
PCBs (Total)	mg/kg	0.1	0	0	2		<0.1	< 0.1	<0.1	<0.1	< 0.1	<0.1	< 0.1	< 0.1	<0.1	< 0.1	<0.1	< 0.1	< 0.1	<0.1	< 0.1	< 0.1	<0.1
Herbicides																							
Dinoseb	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorinated Hydrocarbons																							
Chlorinated hydrocarbons EPAVic	mg/kg	0.01			1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Other chlorinated hydrocarbons (Total)	mg/kg	0.01	50	10			<0.01	<0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01
1,1,1,2-tetrachloroethane	mg/kg	0.01					< 0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
1,1,1-trichloroethane 1,1,2,2-tetrachloroethane	mg/kg	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2,2-tetracnioroesnane 1,1,2-trichloroethane	mg/kg mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04
1,1-dichloroethene	mg/kg	0.04					< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2,4-trichlorobenzene	mg/kg	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-dichlorobenzene	mg/kg	0.02					< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-dichloroethane	mg/kg	0.02					< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02
1,4-dichlorobenzene	mg/kg	0.02					< 0.02	<0.02	< 0.02	<0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02
Carbon tetrachloride	mg/kg	0.01					< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chlorobenzene	mg/kg	0.02					< 0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	< 0.02
Chloroform	mg/kg	0.02					< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02
cis-1,2-dichloroethene	mg/kg	0.01					< 0.01	<0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01
Dichloromethane	mg/kg	0.4	11	2.8		14	< 0.4	<0.4	< 0.4	<0.4	< 0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	< 0.4	< 0.4	<0.4	<0.4	< 0.4	<0.4
Hexachlorobutadiene	mg/kg	0.02	***				<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02
Vinyl chloride	mg/kg	0.02	4.8	1.2		0.6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Asbestos Asbestos Detected	0	0.1							+ -		 	—	+	+	+	+				+		+	+
Asbestos Detected Asbestos (Trace)	9 Fibres	0.1					-	-	1 -	-	-	-	+ :	+ :-	+ - : -	+ :-		-		+-:-	+ :	+-:-	+ :
Asbestos (Trace) Asbestos Type	- Ibies						- :	+ :-	+ :	1	- :	- : -	+ :-	+ :-	+ :-	+ :-		+ :-		+ :-	+ :	+ :-	+ :
weight of sample	a	0.01					-	+ :-	+ :	+ :	-	 	+ :	+ :-	+ :-	+ :				+ :-		+ :-	+ :
Comments	ia	0.01							<u> </u>														

Comments

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co



Summary of Soil Analytical Results

Location Code	NEL-BH178	NEL-BH179	NEL-BH179	NEL-BH179	NEL-BH180	NEL-BH180	NEL-BH181	NEL-BH181	NEL-BH182	NEL-BH182	NEL-BH184	NEL-BH184	NEL-BH184	NEL-BH185	NEL-BH185	NEL-BH186	NEL-BH187	NEL-BH187
Depth	1 - 1.1	0.1 - 0.2	1.5 - 1.6	1.5 - 1.6	0.1 - 0.2	1 - 1.1	0.2 - 0.3	1 - 1.1	0.2 - 0.3	1 - 1.1	0.2 - 0.3	0.5 - 0.6	1 - 1.1	0.2 - 0.3	0.9 - 1	0.2 - 0.3	0.2 - 0.3	0.5 - 0.6
Date	5/07/2018	9/04/2018	9/04/2018	9/04/2018	17/05/2018	17/05/2018	16/04/2018	16/04/2018	16/04/2018	16/04/2018	10/07/2018	9/08/2018	9/08/2018	1/06/2018	1/06/2018	1/06/2018	7/05/2018	7/05/2018
Field ID	NEL-BH178_1.0m	NEL-BH179_0.1m	NEL-BH179_1.5m	QC1002	NEL-BH180_0.1m	NEL-BH180_1.0m	NEL-BH181-0.2m	NEL-BH181-1.0m	NEL-BH182-0.2m	NEL-BH182-1.0m	NEL-BH184_0.2m	NEL-BH184_0.5	NEL-BH184_1.0	NEL-BH185_0.2m	NEL-BH185_0.9m	NEL-BH186_0.2m	NEL-BH187_0.2m	NEL-BH187_0.5m
Sample Type	Normal	Normal	Normal	Field_D	Normal Normal	Normal	Normal	Normal	Normal	Normal								
Lab Report Number	EM1810873	EM1805929	EM1805929	EM1805929	EM1808218	EM1808218	EM1806356	EM1806356	EM1806356	EM1806356	EM1811072	EM1812809	EM1812809	EM1809091	EM1809091	EM1809091	EM1807474	EM1807474

Section 1.5. 1.5. 1.5. 1.5. 1.5. 1.5. 1.5. 1.5							Lab Report Number	EM1810873	EM1805929	EM1805929	EM1805929	EM1808218	EM1808218	EM1806356	EM1806356	EM1806356	EM1806356	EM1811072	EM1812809	EM1812809	EM1809091	EM1809091	EM1809091	EM1807474	EM1807474
The control of the co		Unit	EQL				Trigger for Leachate																		
Margine Marg	VOCs							Ī	1	1	1	1	1	1	1		1	1			1		1		1
March Marc	TCE	mg/kg	0.02	2				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02
Part	Tetrachloroethene	mg/kg																							
State Stat	trans-1,2-dichloroethene	mg/kg	0.02	2				< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02
Change C	SVOCs																								
Companies were fairly and Companies		mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Commitment Com																									
The property of the control of the c		mg/kg						< 0.03	-	-	-	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03		< 0.03	
1302 147						1		< 0.03		0.00		< 0.03	< 0.03					< 0.03		< 0.03	< 0.03		< 0.03	< 0.03	< 0.03
The column The					10			-				-	-					-		-			-	-	
Series (1968) 19																									
MATCHINE NA 1		0 0																							
Second S								-0.00	-0.00	-0.00	*0.00	-0.00	< 0.03	-0.00	-0.00	-0.00	<0.03	<0.03	-0.00	<0.03	<0.03	-0.00	-0.00	<0.03	
Service May 10 10 10 10 10 10 10 1					1.2		0.6						< 0.03				< 0.03	< 0.03		< 0.03	< 0.03			< 0.03	
Secondary March																									
Secondary Seco		mg/kg			4		2																		
Company Comp																									
A																									
ACOUNT 10		mg/kg						<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03
Section Sect																									
Company Comp		mg/kg	0.05					< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Company 1 15 15 15 15 15 15 15		mg/kg			50		40																		
Control Cont	Dieldrin	mg/kg	0.03	3				< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Contact Cont	Endosulfan I	mg/kg	0.03	3				< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Second March Mar	Endosulfan II	mg/kg	0.03	3				< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03
Considerate May 10 10 10 10 10 10 10 1	Endosulfan Sulfate	mg/kg	0.03	3				< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
98C. Christoff	Endrin	mg/kg	0.03	3				< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Page 198	Endrin aldehyde	mg/kg	0.03	3				< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Page	g-BHC (Lindane)	mg/kg	0.03	3				< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Management Man	Heptachlor	mg/kg	0.03	3 4.8	1.2		0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Part	Heptachlor epoxide	mg/kg	0.03	3				< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
With Clary Trains Page 22 1 1 1 1 1 1 1 1	Hexachlorobenzene	mg/kg	0.03	3				< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
William Tally mg 02 mg mg 12 mg mg mg mg mg mg mg m	Methoxychlor	mg/kg	0.03	3				< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Sympto S	MAH																								
Tate March M		mg/kg	0.2					< 0.2		-	-	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	< 0.2	< 0.2	<0.2	< 0.2	<0.2	<0.2	< 0.2	< 0.2
The Part Table 1		mg/kg	0.5					< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
PGS (Total) mplg 01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		mg/kg	0.2					-	< 0.2	< 0.2	<0.2	-	-	<0.2	< 0.2	<0.2	< 0.2	-	-	-	-	-	-	-	-
Provide Prov																			< 0.1	< 0.1					
Probability Property Probability Property Probability Property Probability Probabili		mg/kg	0.1	0	0	2		<0.1	<0.1	<0.1	< 0.1	<0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	< 0.1			< 0.1	< 0.1	<0.1	< 0.1	<0.1
Control Hypocarbon (Each Physical Hypocarbon (Each P																			-	-					
Commentation processors (Family and processors (Family and processors (Family and processors) Commentation processors (Family and processors)		mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cher characterised proposations (Total) May Off SO 10 Coli			0.04					-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
1.1.1 declaratione mays					10	'					<0.01														
1.1.14/chichorelame mpkg 0.07					10																				
1.1.2 Architorochanne mg/kg 0.02																									
1.7.3 declarosemente mg/kg 0.04																									
1.1-definitionedness mg/kg 0.01																									
1.24-definishment																									
1.2-definition combines mg/kg 0.2									< 0.01		< 0.01		< 0.01												
1.4 definited extended mg/kg 0.2		mg/kg							< 0.02		< 0.02						<0.02			< 0.02				< 0.02	
Cation standarded		mg/kg							< 0.02		< 0.02									< 0.02					
Concision Conc																									
Chordom Charles Char																									
CB1 2 delivorethere									-0.02		-0.02	-0.02	-0.02				-0.02	-0.02		-0.02	-0.02	-0.02		-0.02	
Deltomerhane mg/kg 0.4									-0.02		-0.02		-0.02					-0.02		-0.02		-0.02			
Headchookutadene mg/kg 0.02 11 2.8 14 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.0													-0.01												
Vary closeder Vary closede					2.0			-0.4	-0.4	-0.4		-0.4	-0.4	-0.4	-0.4		-0.4	-0.4			-0.4	-0.4	-0.4	-0.4	
Abbesto								<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Abbestod 9 0.1		mg/kg	0.02	4.8	1.2		0.6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Abelesis (Trace) Fibres 5		-	0.1						1	1		+	+	+	-	_	+	-	+		+	1	+	+	-
Alberto Type		Fibrae						- :		-	+ :-	+ :-	-	+ :-	+-:-	-	1 :	-	+ -	-	+ :-	+ :-	1 :-		+ :-
weight of sample g 0.01		- intes	- 5						+ :-	+ :	+ :-	+ :-	1	+ :-	+ :-	+ :-	+ :-	+ :-	+ :-	+ :	+ :-	+ :-	+ :-	+ :-	+ :-
		a	0.01	1						+ :	+ :	+ : -	1 :	+ :	+ :-	+ :	+ :-	+ :-		+ :	+ :-	+ :-	+ :	+ :	+ :-
	Comments	1g	0.01									· · · · ·	-		-			-	-		-			-	-

Comments

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co



Summary of Soil Analytical Results

Location Code	NEL-BH188	NEL-BH188	NEL-BH190	NEL-BH190	NEL-BH191	NEL-BH191	NEL-BH191	NEL-BH192	NEL-BH192	NEL-BH194	NEL-BH194	NEL-BH195	NEL-BH195	NEL-BH200	NEL-BH200	NEL-BH201	NEL-BH201	NEL-BH202
Depth	0.2 - 0.3	1 - 1.1	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1 - 1.1	1 - 1.1	0.2 - 0.6	1 - 1.1	0.2 - 0.3	1 - 1.1	0.5 - 0.6	1 - 1.1	0.5 - 0.6	1 - 1.1	0.5 - 0.6	1 - 1.1	0.2 - 0.3
Date	7/05/2018	7/05/2018	16/07/2018	16/07/2018	12/05/2018	12/05/2018	12/05/2018	18/07/2018	18/07/2018	24/05/2018	24/05/2018	10/07/2018	10/07/2018	20/06/2018	20/06/2018	22/06/2018	22/06/2018	25/06/2018
Field ID	NEL-BH188_0.2m	NEL-BH188_1.0m	NELBH190_0.5	NELBH190_1.5	NEL-BH191_0.5m	NEL-BH191_1.0m	QC1003	NEL-BH192_0.2	NEL-BH192_1.0	NEL-BH194_0.2r	NEL-BH194_1.0m	NEL-BH195_0.5m	NEL-BH195_1.0m	NEL-BH200_	NEL-BH200_1.0n	NEL-BH201_0.5m	NEL-BH201_1.0m	NEL-BH202_0.2m
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Leb Report Number	EM1807474	FM1807474	FM1811371	FM1811371	FM1808252	FM1808252	FM1808252	EM1811453	EM1811453	FM1808553	EM1808553	FM1811072	FM1811072	FM1809981	FM1809961	FM1810220	FM1810220	FM1810219

						Lab Report Number	EM1807474	EM1807474	EM1811371	EM1811371	EM1808252	EM1808252	EM1808252	EM1811453	EM1811453	EM1808553	EM1808553	EM1811072	EM1811072	EM1809961	EM1809961	EM1810220	EM1810220	EM18102
						EPA Victoria IWRG 621																		
	Unit			EPA Victoria IWRG 621 Category C	EPA Victoria IWRG 621 Clean Fill	Trigger for Leachate Testing																		
•																								
E		0.02					< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	
rachloroethene		0.02					< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	
ns-1,2-dichloroethene	mg/kg	0.02					<0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	
b																								
Dinitro-2-methylphenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
eticides																								
er organochlorine pesticides - Lab Calc	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
anochlorine pesticides EPAVic	mg/kg	0.03			1		< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
er organochlorine pesticides EPAVic	mg/kg	0.03	50	10			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-DDE	mg/kg	0.05					<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
HC	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
rin		0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
rin + Dieldrin		0.03	4.8	12		0.6	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	+
HC		0.03	4.0	1.2		0.0	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	+
ordane		0.03	16	4		2	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-
ordane (cis)		0.03					< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	+
ordane (trans)		0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
HC	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	
I DDD		0.05					< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
DDT		0.05					< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	1
T+DDE+DDD - Lab Calc		0.05	50	50		40	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	\neg
eldrin		0.03					en na	r0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	×0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	+
dosulfan I		0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-0.03	<0.03	<0.03	-0.03	<0.03	<0.03	<0.00	-0.00	-0.03	<0.03	<0.03	+
dosulfan II		0.03								<0.03			<0.03		<0.03	<0.03	<0.03		<0.03	<0.03	<0.03	<0.03		+
		0.00					<0.03	< 0.03	<0.03		< 0.03	< 0.03	< 0.03	<0.03		<0.03		< 0.03	< 0.03	<0.03	< 0.03		<0.03	_
dosulfan Sulfate		0.03					<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
frin		0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	
drin aldehyde	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	
HC (Lindane)	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
otachlor	mg/kg	0.03	4.8	1.2		0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
ptachlor epoxide	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-
xachlorobenzene	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-
ethoxychlor		0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	+
,		0.00												-						+		+		
NH (Sum of Total)	mg/kg	0.2					< 0.2	<0.2	<0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	<0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	+
rrene	mg/kg	0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	+
tal MAH	mg/kg	0.0					-0.0		-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0			-0.0	-0.0	+
an medical	mgrag	0.2						+ -	_		_			_						+	+	+		+
CBs (Total)	mg/kg	0.1	0	0	2		en 1	<0.1	<0.1	<0.1	<0.1	×0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	e0.1	<0.1	<0.1	<0.1	+
icides	mg/kg	0.1		0			50.1	50.1	50.1	VO.1	50.1	50.1	NO.1	~0.1	50.1	V0.1	NO.1	~0.1	50.1					+
noseb	mg/kg	-									-5			-						+	-	-		+
Inated Hydrocarbons	iliging	5						<-	<->	<0	<0	<-					- 40	- 50	<0	+				+
Iorinated hydrocarbons EPAVic		0.01					-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	+
			50	40	1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	+
ner chlorinated hydrocarbons (Total)		0.01	50	10			< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	< 0.01	< 0.01	*0.01	<0.01	<0.01	<0.01	+
,1,2-tetrachloroethane	0 0	0.01					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	<0.01	+
1-trichloroethane 2.2-tetrachloroethane		0.01					< 0.01	< 0.01	<0.01	<0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	+
2,2-tetrachloroethane		0.02					<0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	+
,2-trichloroethane -dichloroethane		0.04					< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04	<0.04	< 0.04	<0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04	<0.04	+
-dichloroethene 4-trichlorobenzene		0.00					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-
		0.01					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	+
dichlorobenzene		0.02					<0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02	< 0.02	+
dichloroethane		0.02					<0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	+
dichlorobenzene		0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	+
on tetrachloride		0.01					<0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	_
robenzene		0.02					< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
oroform		0.02					<0.02	< 0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	
1,2-dichloroethene		0.01					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	
hloromethane		0.4					<0.4	<0.4	< 0.4	<0.4	<0.4	<0.4	< 0.4	< 0.4	<0.4	< 0.4	< 0.4	<0.4	<0.4	< 0.4	<0.4	<0.4	<0.4	
achlorobutadiene		0.02	11	2.8		1.4	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
chloride	mg/kg	0.02	4.8	1.2		0.6	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
tos																								
estos Detected	9	0.1					-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	
bestos (Trace)	Fibres	5							-		-	-	-	-	-	-	-	-	-	-	-	-	-	\top
bestos Type	-								-				-		-			-		1 -	1	T -	1 -	\top
ight of sample	0	0.01					-	-			-			1 -	-					-	1 -		1 -	+

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co



Summary of Soil Analytical Results

Location Code	NEL-BH202	NEL-BH202	NEL-BH203	NEL-BH203	NEL-BH204	NEL-BH204	NEL-BH217	NEL-BH217	NEL-BH221	NEL-BH221	NEL-BH221	NEL-BH223	NEL-BH223	NEL-BH224	NEL-BH224	NEL-BH225
Depth	0.2 - 0.3	1 - 1.1	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1 - 1.1	0.5 - 0.5	1 - 1	3 - 3	0.2 - 0.3	0.5 - 0.6	0.2 - 0.3	0.5 - 0.6	0.2 - 0.3
Date	25/06/2018	25/06/2018	18/06/2018	18/06/2018	18/06/2018	18/06/2018	9/08/2018	9/08/2018	11/09/2018	11/09/2018	11/09/2018	13/06/2018	13/06/2018	13/06/2018	13/06/2018	6/07/2018
Field ID	QC1006	NEL-BH202_1.0m	NEL-BH203_0.5m	NEL-BH203_1.5m	NEL-BH204_0.5m	NEL-BH204_1.5m	NEL-BH217_0.5	NEL-BH217_1.0	NEL-BH221_0.5	NEL-BH221_1.0	NEL-BH221_3.0	NEL-BH223_0.2m	NEL-BH223_0.5m	NEL-BH224_0.2m	NEL-BH224_0.50	n NEL-BH225_0.2m
Sample Type	Field_D	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Lab Report Number	EM1810219	EM1810219	EM1809816	EM1809816	EM1809816	EM1809816	EM1812809	EM1812809	EM1814744	EM1814744	EM1814744	EM1809532	EM1809532	EM1809532	EM1809532	EM1810871

	-	_				Lab Report Number	EM1810219	EM1810219	EM1809816	EM1809816	EM1809816	EM1809816	EM1812809	EM1812809	EM1814744	EM1814744	EM1814744	EM1809532	EM1809532	EM1809532	EM1809532	EM1810871
			EPA Victoria IWRG			EPA Victoria IWRG 621 Trigger for Leachate																
VOCs	Unit	EQL	621 Category B	621 Category C	621 Clean Fill	Teeting	-	1	1	1	1	1	1	1	1	1	1	i	1	1	1	1
TCE	mg/kg	0.02					< 0.02	en no	e0.02	en no	r0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Tetrachloroethene	mg/kg	0.02					<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
trans-1,2-dichloroethene	mg/kg	0.02					<0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02
SVOCs																						
4,6-Dinitro-2-methylphenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
OC Pesticides																						
Other organochlorine pesticides - Lab Calc	mg/kg	0.03					< 0.07*4	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	<0.03
Organochlorine pesticides EPAVic	mg/kg	0.03			1		< 0.07*4	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Other organochlorine pesticides EPAVic	mg/kg	0.03	50	10			-	-	-	-	-		-	-	-	-		-	-		-	-
4,4-DDE	mg/kg	0.05					<0.07*4	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
a-BHC	mg/kg	0.03					<0.07 ^{#4}	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03
Aldrin	mg/kg	0.03					<0.07 ^{#4}	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03
Aldrin + Dieldrin	mg/kg	0.03	4.8	1.2		0.6	<0.07**	< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03
b-BHC	mg/kg	0.03					<0.07 ⁸⁴	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03
Chlordane	mg/kg	0.03	16	4		2		<0.03	<0.03	< 0.03	<0.03	<0.03			< 0.03			< 0.03	< 0.03	<0.03		<0.03
Chlordane (cis)	mg/kg	0.03					<0.07 ⁸⁴	< 0.03	< 0.03	<0.03	<0.03 <0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Chlordane (trans) d-BHC	mg/kg	0.03					<0.07** <0.07*4	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03 <0.03	<0.03	<0.03	<0.03
4.4 DDD	mg/kg	0.03					<0.07**	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
4,4 DDT	mg/kg mg/kg	0.05					<0.07**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDT+DDE+DDD - Lab Calc	mg/kg mg/kg	0.05	50	50		40	<0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	mg/kg	0.03	30	30		40	<0.07	<0.08	<0.03	<0.05	<0.05	<0.05	<0.03	<0.05	<0.05	<0.05 e0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan I	mg/kg mg/kg	0.03					<0.07	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan II	mg/kg	0.03					<0.07	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Endosulfan Sulfate	mg/kg	0.03					<0.07	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Endrin	mg/kg	0.03					<0.07*4	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Endrin aldehyde	mg/kg	0.03					<0.07*4	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03
g-BHC (Lindane)	mg/kg	0.03					<0.07*4	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	×0.03	<0.03
Heptachlor	mg/kg	0.03	4.8	1.2		0.6	<0.07*4	<0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Heptachlor epoxide	mg/kg	0.03					<0.07*4	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03
Hexachlorobenzene	mg/kg	0.03					<0.07*4	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03
Methoxychlor	mg/kg	0.03					<0.07*4	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
MAH																						
MAH (Sum of Total)	mg/kg	0.2					< 0.2	<0.2	< 0.2	<0.2	<0.2	< 0.2	< 0.2	< 0.2	< 0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	< 0.2	<0.2
Styrene	mg/kg	0.5					<0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5
Total MAH□	mg/kg	0.2					-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
PCBs																						
PCBs (Total) Herbicides	mg/kg	0.1	0	0	2		<0.2*4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dinoseb	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorinated Hydrocarbons	IIIging											~5										
Chlorinated hydrocarbons EPAVic	mg/kg	0.01			1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01
Other chlorinated hydrocarbons (Total)	mg/kg	0.01	50	10			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1,2-tetrachloroethane	mg/kg	0.01					<0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01
1,1,1-trichloroethane	mg/kg	0.01					<0.01	<0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	< 0.01
1,1,2,2-tetrachloroethane	mg/kg	0.02					<0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02	<0.02
1,1,2-trichloroethane	mg/kg	0.04					<0.04	< 0.04	< 0.04	< 0.04	<0.04	<0.04	< 0.04	<0.04	< 0.04	< 0.04	<0.04	< 0.04	< 0.04	<0.04	<0.04	< 0.04
1,1-dichloroethene 1,2,4-trichlorobenzene	mg/kg mg/kg	0.01					<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2,4-trichlorobenzene 1,2-dichlorobenzene	mg/kg mg/kg	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-dichloroethane	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,4-dichlorobenzene	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon tetrachloride	mg/kg	0.01					< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	<0.01
Chlorobenzene	mg/kg	0.02					<0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02
Chloroform	mg/kg	0.02					<0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	<0.02
cis-1,2-dichloroethene	mg/kg	0.01					<0.01	<0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	< 0.01
Dichloromethane	mg/kg	0.4					<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	< 0.4	<0.4	< 0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Hexachlorobutadiene	mg/kg	0.02	11	2.8		1.4	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02
Vinyl chloride	mg/kg	0.02	4.8	1.2		0.6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Asbestos Asbestos Detected	0	0.1						 	1			1 -	+	+ .	1 .	No		+	+	-	+	_
Asbestos Detected Asbestos (Trace)	Fibres	5					- :	 	+ :		+ :	+ -	+ :-	+ :	1 :	No	+ :-	+ :-	+ :-	+ :	+ :-	-
Asbestos Type	-	l v							1		-		1 :		1 -		1				1	-
		_									_	+			+	46.1	+	_		_		+
weight of sample	g	0.01									-	-								-		

Comments

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co



Summary of Soil Analytical Results

Location Code	NEL-BH225	NEL-BH232	NEL-BH232	NEL-EF-BH003	NEL-EF-BH003	NEL-EF-BH005	NEL-EF-BH005	NEL-EF-BH006	NEL-EF-BH006	NEL-EF-BH007	NEL-EF-BH007	NEL-EF-BH009	NEL-EF-BH009	NEL-EF-BH011	NEL-EF-BH013
Depth	1 - 1.1	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1 - 1.1	0.2 - 0.3	1 - 1.1	0.5 - 0.6	1.5 - 1.6	0.2 - 0.3	0.5 - 0.6	0.5 - 0.6	1.5 - 1.6	0.2 - 0.3	0.5 - 0.6
Date	6/07/2018	22/06/2018	22/06/2018	9/07/2018	9/07/2018	1/06/2018	1/06/2018	9/07/2018	9/07/2018	28/05/2018	28/05/2018	4/07/2018	4/07/2018	28/05/2018	10/08/2018
Field ID	NEL-BH225_1.0m	NEL-BH232_0.5m	NEL-BH232_1.5m	NEL-EF-BH003_0.5m	NEL-EF-BH003_1.0m	NEL-EF-BH005_0.2m	NEL-EF-BH005_1.0m	NEL-EF-BH006_0.5m	NEL-EF-BH006_1.5m	NEL-EF-BH007_0.2m	NEL-EF-BH007_0.5m	NEL-EF-BH009_0.5m	NEL-EF-BH009_1.5m	NEL-EF-BH011_0.2m	NEL-EF-BH013_0.5
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Lab Report Number	EM1810871	EM1810220	EM1810220	EM1811071	EM1811071	EM1809091	EM1809091	EM1811071	EM1811071	EM1808781	EM1808781	EM1810779	EM1810779	EM1808781	EM1812810

						Lab Report Number	EM1810871	EM1810220	EM1810220	EM1811071	EM1811071	EM1809091	EM1809091	EM1811071	EM1811071	EM1808781	EM1808781	EM1810779	EM1810779	EM1808781	EM1812810
	Unit	EQL		EPA Victoria IWRG 621 Category C	EPA Victoria IWRG 621 Clean Fill	EPA Victoria IWRG 621 Trigger for Leachate Teeting															
VOCs							İ	1		1		1		1	1	1	1	1	1	1	
TCE	mg/kg	0.02					<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02
Tetrachloroethene	mg/kg	0.02					<0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02
trans-1,2-dichloroethene	mg/kg	0.02					<0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02
8VOCs																					
4,6-Dinitro-2-methylphenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
OC Peeticides																				_	
Other organochlorine pesticides - Lab Calc	mg/kg	0.03					<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03
Organochlorine pesticides EPAVic	mg/kg	0.03			1		<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03
Other organochlorine pesticides EPAVic	mg/kg	0.03	50	10								-									-
4,4-DDE	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05
a-BHC	mg/kg	0.03					<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Aldrin	mg/kg	0.03					<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03
Aldrin + Dieldrin	mg/kg	0.03	4.8	1.2		0.6	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
b-BHC	mg/kg	0.03					<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chlordane	mg/kg	0.03	16	4		2	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chlordane (cis)	mg/kg	0.03					<0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03
Chlordane (trans)	mg/kg	0.03					<0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03
d-BHC	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03
4,4 DDD	mg/kg	0.05					<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05
4,4 DDT	mg/kg	0.05					< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	< 0.05	<0.05	< 0.05
DDT+DDE+DDD - Lab Calc	mg/kg	0.05	50	50		40	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Endosulfan I	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Endosulfan II	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Endosulfan Sulfate	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Endrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Endrin aldehyde	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
g-BHC (Lindane)	mg/kg	0.03					<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03
Heptachlor	mg/kg	0.03	4.8	1.2		0.6	<0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03
Hentachlor enoxide	mg/kg	0.03					<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hexachlorobenzene	mg/kg	0.03					<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Methoxychlor	mg/kg	0.03					<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
MAH	inging	0.00					-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
MAH (Sum of Total)	mg/kg	0.2					< 0.2	< 0.2	< 0.2	< 0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	< 0.2	< 0.2	<0.2	< 0.2	< 0.2	<0.2
Styrene	mg/kg	0.5					< 0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5
Total MAH□	mg/kg	0.2							-			-			-	-	-	-		-	-
PCBs																					<0.1
PCBs (Total)	mg/kg	0.1	0	0	2		<0.1	< 0.1	<0.1	<0.1	< 0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	< 0.1	<0.1	<0.1	
Herbicides																					-
Dinoseb	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorinated Hydrocarbons																					
Chlorinated hydrocarbons EPAVic	mg/kg	0.01			1		<0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01
Other chlorinated hydrocarbons (Total)	mg/kg	0.01	50	10			<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01
1,1,1,2-tetrachloroethane	mg/kg	0.01					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,1-trichloroethane	mg/kg	0.01					<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01
1,1,2,2-tetrachloroethane	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,1,2-trichloroethane	mg/kg	0.04					<0.04	< 0.04	<0.04	<0.04	< 0.04	< 0.04	< 0.04	< 0.04	<0.04	< 0.04	<0.04	< 0.04	<0.04	<0.04	<0.04
1,1-dichloroethene 1,2,4-trichlorobenzene	mg/kg	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01 <0.01
1,2,4-trichlorobenzene 1,2-dichlorobenzene	mg/kg	0.01					<0.01 <0.02	<0.01	<0.01	<0.01 <0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-dichlorobenzene 1,2-dichloroethane	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-dichloroethane 1,4-dichlorobenzene	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon tetrachloride	mg/kg mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chlorobenzene	mg/kg	0.01					<0.01	<0.01 en.n2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chloroform	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
cis-1.2-dichloroethene	mg/kg	0.02					<0.01	<0.02	<0.01	<0.01	<0.02	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01
Dichloromethane	mg/kg	0.4					<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Hexachlorobutadiene	mg/kg	0.02	11	2.8		1.4	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Vinyl chloride	mg/kg	0.02	4.8	1.2		0.6	<0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02
Asbestos	0.19	1															-				
Asbestos Detected	g	0.1									-	-			-						_
Asbestos (Trace)	Fibres	5						-	-	-	-	-	-		-		-		-	1 .	-
Asbestos Type	-							-	-	-	-	-		-		-			-	-	-
weight of sample	g	0.01					-	-	-	-	-	-		-	-	-	-	-	-	-	-
Comments																					

Comments

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co

GHD

Appendix J Table 3 Summary of Soil Analytical Results

Location Code	NEL-EF-BH013	NEL-EF-BH014	NEL-EF-BH014	NEL-EF-BH015	NEL-EF-BH015	NEL-EF-BH016	NEL-EF-BH016	NEL-EF-BH017	NEL-EF-BH017	NEL-EF-BH017	NEL-EF-BH017	NEL-EF-BH017	NEL-EF-BH017
Depth	1 - 1.1	0.5 - 0.6	1 - 1.1	0.5 - 0.6	1 - 1.1	0.2 - 0.3	1 - 1.1	0.5 - 0.6	0.5 - 0.6	1 - 1.1	1.5 - 1.6	2 - 2.1	3 - 3.1
Date	10/08/2018	9/07/2018	9/07/2018	14/06/2018	14/06/2018	5/06/2018	5/06/2018	5/06/2018	5/06/2018	5/06/2018	5/06/2018	15/06/2018	15/06/2018
Field ID	NEL-EF-BH013_1.0	NEL-EF-BH014_0.5m	NEL-EF-BH014_1.0m	NEL-EF-BH015_0.5	NEL-EF-BH015_1.0	NEL-EF-BH016_0.2m	NEL-EF-BH016_1.0m	NEL-EF-BH017_0.5m	QC1004	NEL-EF-BH017_1.0m	NEL-EF-BH017_1.5m	NEL-EF-BH017_2.0m	NEL-EF-BH017_3.0m
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal	Normal
Lab Report Number	EM1812810	EM1811071	EM1811071	EM1809614	EM1809614	EM1809234	EM1809234	EM1809234	EM1809234	EM1809234	EM1809234	EM1809613	EM1809613

						Lab Report Number	EM1812810	EM1811071	EM1811071	EM1809614	EM1809614	EM1809234	EM1809234	EM1809234	EM1809234	EM1809234	EM1809234	EM1809613	EM1809613
	Unit		EPA Victoria IWRG		EPA Victoria IWRG 621 Clean Fill	EPA Victoria IWRG 621 Trigger for Leachate Testing													
VOCe	Unit	EQL	621 Category B	621 Category C	021 Clean Fill	leating	-	1	1	1	1	1	1	1	1	i	1	1	1
TCE	mg/kg	0.02					< 0.02	en no	< 0.02	<0.02	<0.02	< 0.02	<0.02	< 0.02	×0.02	< 0.02	< 0.02	< 0.02	<0.02
Tetrachioroethene	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02
trans-1,2-dichloroethene	mg/kg	0.02					<0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02	<0.02	< 0.02	< 0.02
SVOCs																			
4,6-Dinitro-2-methylphenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
OC Pesticides																			
Other organochlorine pesticides - Lab Calc	mg/kg	0.03					< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03
Organochlorine pesticides EPAVic	mg/kg	0.03			1		< 0.03	0.12	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03
Other organochlorine pesticides EPAVic	mg/kg	0.03	50	10			-		-	-	-	-			-			-	
4,4-DDE	mg/kg	0.05					<0.05	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	<0.05	< 0.05	<0.05	<0.05	<0.05
a-BHC	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Aldrin	mg/kg	0.03					<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03
Aldrin + Dieldrin	mg/kg	0.03	4.8	1.2		0.6	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03
b-BHC	mg/kg	0.03					<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03
Chlordane	mg/kg	0.03	16	4		2	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03 <0.03	< 0.03	< 0.03	<0.03 <0.03
Chlordane (cis)	mg/kg	0.03																	
Chlordane (trans)	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03
d-BHC 4.4 DDD	mg/kg	0.03					<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03
	mg/kg							<0.05	<0.05		< 0.05	<0.05		<0.05	<0.05		<0.05	<0.05	<0.05
4,4 DDT DDT+DDE+DDD - Lab Calc	mg/kg	0.05	50	50		40	<0.05 <0.05	<0.05	<0.05 <0.05	<0.05	< 0.05	<0.05 <0.05	<0.05	<0.05	<0.05 <0.05	<0.05 <0.05	<0.05	<0.05 <0.05	<0.05 <0.05
	mg/kg		50	50		40	<0.05	0.12 <0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	<0.05
Dieldrin	mg/kg	0.03					-0.00			-0.00					-0.00				
Endosulfan I	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03
Endosulfan II	mg/kg	0.00					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03
Endosulfan Sulfate	mg/kg	0.03					<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Endrin Endrin aldehyde	mg/kg	0.03					<0.03 <0.03	<0.03 <0.03	<0.03 <0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03 <0.03	<0.03 <0.03	< 0.03	<0.03	<0.03 <0.03
	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
g-BHC (Lindane) Heptachlor	mg/kg mg/kg	0.03	4.8	1.2		0.6						<0.03			+				
Heptachlor epoxide	mg/kg	0.03	4.0	1.2		0.0	<0.03	<0.03	<0.03 <0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Hexachlorobenzene	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Methoxychlor	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
MAH	mg/kg	0.03					~0.03	~0.03	40.03	~0.03	V0.03	NO.03	~0.03	~0.03	~0.03	V0.03	~0.03	~0.03	V0.03
MAH (Sum of Total)	mg/kg	0.2					< 0.2	< 0.2	< 0.2	< 0.2	<0.2	< 0.2	<0.2	< 0.2	< 0.2	<0.2	< 0.2	< 0.2	<0.2
Styrene	mg/kg	0.5					< 0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total MAH□	mg/kg	0.2						-	-	-	-	-			-		-	-	-
PCBs							<0.1												
PCBs (Total)	mg/kg	0.1	0	0	2			< 0.1	< 0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	< 0.1	<0.1
Herbickies							-												
Dinoseb	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorinated Hydrocarbons																			
Chlorinated hydrocarbons EPAVic Other chlorinated hydrocarbons (Total)	mg/kg	0.01	50	10	1		<0.01	<0.01	<0.01	< 0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
1,1,1,2-tetrachloroethane	mg/kg mg/kg	0.01	50	10			<0.01	<0.01	<0.01 <0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01 <0.01	<0.01	<0.01	<0.01 <0.01	<0.01
1.1.trichloroethane	mg/kg	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1.1.2.2-tetrachloroethane	mg/kg	0.01					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,1,2-trichloroethane	mg/kg	0.04					<0.04	<0.04	<0.04	< 0.04	< 0.04	<0.04	<0.04	<0.04	<0.04	< 0.04	<0.04	<0.04	<0.04
1,1-dichloroethene	mg/kg	0.01					<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01
1,2,4-trichlorobenzene	mg/kg	0.01					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01
1,2-dichlorobenzene	mg/kg	0.02					<0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	<0.02
1,2-dichloroethane	mg/kg	0.02					< 0.02	<0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	< 0.02
1,4-dichlorobenzene	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon tetrachloride	mg/kg	0.01					<0.01	< 0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01
Chlorobenzene Chloroform	mg/kg	0.02					<0.02	<0.02 <0.02	<0.02 <0.02	<0.02	<0.02 <0.02	<0.02	<0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02	<0.02 <0.02	<0.02
cis-1,2-dichloroethene	mg/kg mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Dichloromethane	mg/kg mg/kg	0.01					<0.4	<0.4	<0.4	<0.01	<0.4	<0.4	<0.01	<0.4	<0.4	<0.4	<0.4	<0.01	<0.01
Hexachlorobutadiene	mg/kg	0.02	11	2.8		1.4	<0.0	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Vinyl chloride	mg/kg	0.02	4.8	1.2		0.6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Asbestos																			
Asbestos Detected	g	0.1						-	-	-	-	-	-	-	-	-	-	-	-
Asbestos (Trace)	Fibres	5							-	-		-	-			-			-
Asbestos Type	-								-									-	
weight of sample	g	0.01					-	-		-	-	-	-	-	-	-	-	-	-
Comments																			

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co

Appendix J Table 3 **Summary of Soil Analytical Results**

Location Code	NEL-EF-BH018	NEL-EF-BH018	NEL-EF-BH019	NEL-EF-BH019	NEL-EF-BH021	NEL-EF-BH021	NEL-EF-BH024	NEL-EF-BH024
Depth	0.2 - 0.3	0.5 - 0.6	0.2 - 0.3	1 - 1.1	0.5 - 0.6	1.5 - 1.6	0.5 - 0.6	1 - 1.1
Date	14/06/2018	14/06/2018	7/06/2018	7/06/2018	10/08/2018	10/08/2018	10/08/2018	10/08/2018
Field ID	NEL-EF-BH018_0.2	NEL-EF-BH018_0.5	NEL-EF-BH019_0.2m	NEL-EF-BH019_1.0m	NEL-EF-BH021_0.5	NEL-EF-BH021_1.5	NEL-EF-BH024_0.5	NEL-EF-BH024_1.0
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Lab Report Number	EM1809614	EM1809614	EM1809231	EM1809231	EM1812810	EM1812810	EM1812810	EM1812810
EPA Victoria IWRG 621 Trigger for Leachate								

	1	_				Lab Report Rumber	EW1005014	EW 1005014	EW1009231	EM 1009231	EM 1012010	EW1012010	EM1012010	EW 10 120 10
	Unit	EQL	EPA Victoria IWRG 621 Category B	EPA Victoria IWRG 621 Category C	EPA Victoria IWRG 621 Clean Fill	EPA Victoria IWRG 621 Trigger for Leachate Testing								
VOCs									1	1	1	1	1	
TCE	mg/kg	0.02					< 0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	<0.02	<0.02
Tetrachloroethene	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02
trans-1,2-dichloroethene	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	mg/kg	0.02					50.02	50.02	<u.u2< td=""><td><u.u2< td=""><td>*U.UZ</td><td>*U.U2</td><td><-U.UZ</td><td><u.u2< td=""></u.u2<></td></u.u2<></td></u.u2<>	<u.u2< td=""><td>*U.UZ</td><td>*U.U2</td><td><-U.UZ</td><td><u.u2< td=""></u.u2<></td></u.u2<>	*U.UZ	*U.U2	<-U.UZ	<u.u2< td=""></u.u2<>
8VOCs														
4,6-Dinitro-2-methylphenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5
OC Pesticides														
Other organochlorine pesticides - Lab Calc	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03
Organochlorine pesticides EPAVic	mg/kg	0.03			1		< 0.03	< 0.03	< 0.03	0.06	< 0.03	< 0.03	< 0.03	< 0.03
Other organochlorine pesticides EPAVic	mg/kg	0.03	50	10			-	-	-					
4.4-DDE	mg/kg	0.05				t	< 0.05	< 0.05	< 0.05	0.06	<0.05	< 0.05	< 0.05	< 0.05
a-BHC		0.03						<0.03		<0.03				
	mg/kg						<0.03		<0.03		<0.03	<0.03	<0.03	<0.03
Aldrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03
Aldrin + Dieldrin	mg/kg	0.03	4.8	1.2		0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
b-BHC	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chlordane	mg/kg	0.03	16	4		2	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03
Chlordane (cis)		0.03												
	mg/kg						<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Chlordane (trans)	mg/kg	0.03					<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
d-BHC	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03
4,4 DDD	mg/kg	0.05					< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4,4 DDT	mg/kg	0.05					< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDT+DDE+DDD - Lab Calc	mg/kg	0.05	50	50		40	<0.05	<0.05	<0.05	0.06		<0.05	<0.05	<0.05
			30	00		40					< 0.05			
Dieldrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03
Endosulfan I	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03
Endosulfan II	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Endosulfan Sulfate	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Endrin	mg/kg	0.03				t	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03
Endrin aldehyde		0.03												
	mg/kg						<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03
g-BHC (Lindane)	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Heptachlor	mg/kg	0.03	4.8	1.2		0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Heptachlor epoxide	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Hexachlorobenzene	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Methoxychlor	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03
MAH	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
MAH (Sum of Total)	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Styrene	mg/kg	0.5					<0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5
Total MAH□	mg/kg	0.2						-	-	-	-	-	-	-
PCBs											< 0.1	<0.1	< 0.1	<0.1
PCBs (Total)	mg/kg	0.1	0	0	2		<0.1	< 0.1	< 0.1	< 0.1				
Herbickies														
Dinoseb	mg/kg	5				<u> </u>	<5	<5	<5	<5	<5	<5	<5	<5
Chlorinated Hydrocarbons	IIIging													
		0.04			1		-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
Chlorinated hydrocarbons EPAVic	mg/kg	0.01		40			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Other chlorinated hydrocarbons (Total)	mg/kg	0.01	50	10			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,1,2-tetrachloroethane	mg/kg	0.01					< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	<0.01	< 0.01
1,1,1-trichloroethane	mg/kg	0.01					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1,1,2,2-tetrachloroethane	mg/kg	0.02					<0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	< 0.02
1,1,2-trichloroethane		0.04					< 0.04	< 0.04	< 0.04	<0.04	<0.04	< 0.04	<0.04	< 0.04
1,1-dichloroethene	mg/kg						< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01
	mg/kg mg/kg	0.01												< 0.01
1,2,4-trichlorobenzene	mg/kg	0.01					<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
1,2,4-trichlorobenzene	mg/kg mg/kg	0.01					< 0.01	< 0.01	< 0.01					<0.02
1,2,4-trichlorobenzene 1,2-dichlorobenzene	mg/kg mg/kg mg/kg	0.01 0.01 0.02					<0.01 <0.02	<0.01 <0.02	<0.01 <0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2,4-trichlorobenzene 1,2-dichlorobenzene 1,2-dichloroethane	mg/kg mg/kg mg/kg mg/kg	0.01 0.01 0.02 0.02					<0.01 <0.02 <0.02	<0.01 <0.02 <0.02	<0.01 <0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	< 0.02
1,2,4-trichlorobenzene 1,2-dichlorobenzene 1,2-dichloroethane 1,4-dichlorobenzene	mg/kg mg/kg mg/kg mg/kg mg/kg	0.01 0.01 0.02 0.02 0.02					<0.01 <0.02 <0.02 <0.02	<0.01 <0.02 <0.02 <0.02	<0.01 <0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02 <0.02	<0.02 <0.02
1,2,4-trichlorobenzene 1,2-dichlorobenzene 1,2-dichloroethane 1,4-dichlorobenzene Carbon tetrachloride	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.01 0.01 0.02 0.02 0.02 0.02					<0.01 <0.02 <0.02 <0.02 <0.01	<0.01 <0.02 <0.02 <0.02 <0.02	<0.01 <0.02 <0.02 <0.02 <0.01	<0.02 <0.02 <0.02 <0.01	<0.02 <0.02 <0.02 <0.01	<0.02 <0.02 <0.02 <0.01	<0.02 <0.02 <0.02 <0.01	<0.02 <0.02 <0.01
1,2,4-trichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,4-dichlorobenzene Carbon tetrachloride Chlorobenzene	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.01 0.01 0.02 0.02 0.02 0.01 0.01					<0.01 <0.02 <0.02 <0.02 <0.02 <0.01 <0.02	<0.01 <0.02 <0.02 <0.02 <0.02 <0.01 <0.02	<0.01 <0.02 <0.02 <0.02 <0.02 <0.01 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02	<0.02 <0.02 <0.01 <0.02
1,2,4-trichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,4-dichlorobenzene Carbon tetrachloride Chlorobenzene Chlorobenzene Chloroform	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.01 0.01 0.02 0.02 0.02 0.01 0.02 0.02					<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.01	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.02 <0.02 <0.01 <0.02 <0.02
1.2.4 vitchlorobenzene 1.2-dichlorobenzene 1.4-dichlorobenzene 1.4-dichlorobenzene 1.4-dichlorobenzene Carbon tetrachloride Chlorobenzene Chloroform Gis-1.2-dichloroethene	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.01 0.01 0.02 0.02 0.02 0.01 0.02 0.02					<0.01 <0.02 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01	<0.01 <0.02 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.01 <0.02 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.01 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02	<0.02 <0.02 <0.01 <0.02 <0.02 <0.02
1,2,4-trichlorobenzene 1,2-dichlorobenzene 1,2-dichlorobenzene 1,4-dichlorobenzene Carbon tetrachloride Chlorobenzene Chlorobenzene	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.01 0.01 0.02 0.02 0.02 0.01 0.02 0.02					<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.01	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.02 <0.02 <0.01 <0.02 <0.02
1.2.4 vitchlorobenzene 1.2-dichlorobenzene 1.4-dichlorobenzene 1.4-dichlorobenzene 1.4-dichlorobenzene Carbon tetrachloride Chlorobenzene Chloroform Gis-1.2-dichloroethene	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.02	11	2.8		1.4	<0.01 <0.02 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01	<0.01 <0.02 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.01 <0.02 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.01 <0.02 <0.02	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02	<0.02 <0.02 <0.01 <0.02 <0.02 <0.02
1.2.4 inchlorobenzene 1.2. dichlorobenzene 1.2. dichlorobenzene 1.3. dichloroethane 1.4. dichloroethane 1.4. dichloroethane Carbon tetrachloride Chlorobenzene Chloroform Gis-1.2. dichloroethene Dichloromethane Dichloromethane	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.01 0.02 0.02 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02	11 48				<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.02 <0.02 <0.01 <0.04	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.01 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4 <0.02	<0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4 <0.02
1.2.4 fishlorobenzene 1.2.4 fishlorobenzene 1.2.4 fishlorobenzene 1.2.4 fishlorobenzene 1.2.4 fishlorobenzene Carbon tetrackloride Olisorobenzene Olisorobenzene Olisorobenzene Dictoromethene Dichloromethene Dichloromethene Hexachlorobutidene Wexachlorobutidene	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.02	11 4.8	2.8		1.4 0.6	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.01 <0.02 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01 <0.04	<0.02 <0.02 <0.02 <0.01 <0.01 <0.02 <0.02 <0.04	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01
1.2.4-in-kindrobenzene 1.2.dichirochenzene 1.2.dichirochenzene 1.2.dichirochenzene 1.2.dichirochenzene Carbon tetrachroide Chlorobenzene Chlorobenzene Chlorobenzene Dichirochene Dichirochenene Dichirochenene Dichirochene	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.01 0.02 0.02 0.02 0.01 0.02 0.01 0.02 0.01 0.4 0.02					<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.02 <0.02 <0.01 <0.04	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.01 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4 <0.02	<0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4
1.2.4 fin/lorobenzene 1.2.d/shroebenzene 1.2.d/shroebenae 1.2.d/shroebenae 1.2.d/shroebenae 1.2.d/shroebenae 2.d/shroebenae Carbon tetrachioride Chizobenzene Chizobenzene Chizobenzene Chizobenae Chizobenae Plezachroebuladene Ving chizoben Ving chizoben Abbestos Abbestos Detected	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.01 0.01 0.02 0.02 0.02 0.01 0.02 0.01 0.04 0.02 0.02 0.01					<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.02 <0.02 <0.01 <0.04	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01 <0.04	<0.02 <0.02 <0.02 <0.01 <0.02 <0.01 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4 <0.02	<0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4
1.2.4 inklorobenzene 1.2.dichlorobenzene 1.2.dichlorobenzene 1.2.dichlorobenzene 1.2.dichlorobenzene 1.2.dichlorobenzene Carbon tetrachlorde Chlorobenzene Chlorobenzene Chlorobenzene Dichloromethane Hexachlorobudidene Vinyi chlorobenene Abbetos Delected Abbetos Delected Abbetos Delected Abbetos (Trace)	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.01 0.02 0.02 0.02 0.01 0.02 0.01 0.02 0.01 0.4 0.02					<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.02 <0.02 <0.01 <0.04	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01 <0.04	<0.02 <0.02 <0.02 <0.01 <0.02 <0.01 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4 <0.02	<0.02 <0.02 <0.01 <0.02 <0.02 <0.01 <0.4 <0.02
1.2.4 finklordenzene 1.2.dishrordenzene 1.2.dishrordenzene 1.2.dishrordenzene 1.2.dishrordenzene 1.2.dishrordenzene Carbon tetrachrorde Obtrordenzene Carbon tetrachrorde Obtrordenzene Obtrordenzene Dickrordenzene Dickrordenzene William (1.2.dishrordenzene) Dickrordenzene Dickrordenzene Wilder (1.2.dishrordenzene) Wilder (1.2.dishrordenzene) Wilder (1.2.dishrordenzene) Abbestos (1.2.dishrordenzene) Abbestos (1.2.dishrordenzene) Abbestos (1.2.dishrordenzene)	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.01 0.01 0.02 0.02 0.02 0.01 0.02 0.01 0.4 0.02 0.02 0.01 0.4 0.02					<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.02 <0.02 <0.01 <0.04	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01 <0.04	<0.02 <0.02 <0.02 <0.01 <0.02 <0.01 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4 <0.02	<0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4
1.2.4 inklorobenzene 1.2.dichlorobenzene 1.2.dichlorobenzene 1.2.dichlorobenzene 1.2.dichlorobenzene 1.2.dichlorobenzene Carbon tetrachlorde Chlorobenzene Chlorobenzene Chlorobenzene Dichloromethane Hexachlorobudidene Vinyi chlorobenene Abbetos Delected Abbetos Delected Abbetos Delected Abbetos (Trace)	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0.01 0.01 0.02 0.02 0.02 0.01 0.02 0.01 0.04 0.02 0.02 0.01					<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.02 <0.02 <0.01 <0.04	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.01 <0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01 <0.04	<0.02 <0.02 <0.02 <0.01 <0.02 <0.01 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.01 <0.4	<0.02 <0.02 <0.02 <0.01 <0.02 <0.02 <0.02 <0.01 <0.4 <0.02	<0.02 <0.02 <0.01 <0.02 <0.02 <0.01 <0.4 <0.02

GHD 3135006 36



Summary of Soil Analytical Results

ocation Code	NEL-ENV-BH003	NEL-ENV-BH003	NEL-ENV-BH005	NEL-ENV-BH005	NEL-ENV-BH009	NEL-ENV-BH009	NEL-ENV-BH009	NEL-ENV-BH009	NEL-ENV-BH009	NEL-ENV-BH011	NEL-ENV-BH011	NEL-ENV-BH012	NEL-ENV-BH012	NEL-ENV-BH014	NEL-ENV-BH016
Depth	0.2 - 0.3	1 - 1.1	0.5 - 0.6	1 - 1.1	1.5 - 1.6	2.45 - 2.9	3.8 - 4	4.8 - 5	4.8 - 5	0.5 - 0.6	1.5 - 1.6	1 - 1.1	1.5 - 1.6	0.5 - 0.6	0.5 - 0.6
Date	18/09/2018	18/09/2018	18/09/2018	18/09/2018	1/06/2018	2/06/2018	2/06/2018	2/06/2018	2/06/2018	27/06/2018	27/06/2018	13/07/2018	13/07/2018	1/06/2018	13/07/2018
Fleid ID	NEL-ENV-BH003_0.2m	NEL-ENV-BH003_1.0m	NEL-ENV-BH005_0.5m	NEL-ENV-BH005_1.0m	NEL-ENV-BH009_1.5-	NEL-ENV-BH009_2.45	NEL-ENV-BH009_3.8-4	NEL-ENV-BH009_4.8-5	QC3001	NEL-ENV-BH011_0.5	mNEL-ENV-BH011_1.5	im NEL-ENV-BH012_1.0	NEL-ENV-BH012_1.5	NEL-ENV-BH014_0.5n	NEL-ENV-BH016_0.5
Sample Type	Normal	Normal	Field_D	Normal	Normal	Normal	Normal	Normal	Normal						
.ab Report Number	EM1815165	EM1815165	EM1815165	EM1815165	EM1809010	EM1809010	EM1809010	EM1809010	EM1809010	EM1810388	EM1810388	EM1811286	EM1811286	EM1809091	EM1811286

						Lab Report Number	EM1815165	EM1815165	EM1815165	EM1815165	EM1809010	EM1809010	EM1809010	EM1809010	EM1809010	EM1810388	EM1810388	EM1811286	EM1811286	EM1809091	EM1811286
	Unit			EPA Victoria IWRG 621 Category C	EPA Victoria IWRG 621 Clean Fill	EPA Victoria IWRG 621 Trigger for Leachate Testing															
OCs								1	1	1		1	1	1	1	1	1	1	1	1	1
TCE		0.02					<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	< 0.02
Tetrachloroethene		0.02					< 0.02	<0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.03
rans-1,2-dichloroethene	mg/kg	0.02					< 0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.0
)Cs																					
6-Dinitro-2-methylphenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<
Peaticides																					
ther organochlorine pesticides - Lab Calc	mg/kg	0.03					< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<(
rganochlorine pesticides EPAVic		0.03			1		< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<
her organochlorine pesticides EPAVic	mg/kg	0.03	50	10									-	-		-	-	-			
4-DDE	mg/kg	0.05					< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	
BHC	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
ldrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-
ldrin + Dieldrin	mg/kg	0.03	4.8	1.2		0.6	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
-BHC	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-
hlordane	mg/kg	0.03	16	4		2	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	-
hlordane (cis)		0.03	.0			*	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	-
hlordane (trans)	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
BHC		0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
4 DDD		0.03																			
,4 DDD .4 DDT	mg/kg						<0.05	<0.05	<0.05	< 0.05	<0.05	< 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	< 0.05	-
DT+DDE+DDD - Lab Calc		0.05	50	50		40	< 0.05	< 0.05	< 0.05	<0.05	<0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	
ieldrin	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	
ndosulfan I	mg/kg	0.03					<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	
ndosulfan II	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
ndosulfan Sulfate	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
ndrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
ndrin aldehyde	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	
BHC (Lindane)	mg/kg	0.03					< 0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	
leptachlor		0.03	4.8	1.2		0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	-
lentachlor enoxide		0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	-
fexachlorobenzene	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	-
Methoxychlor		0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	-
ueuloxychioi u	IIIgrkg	0.03					V0.00	~0.03	~0.03	~0.03	~0.03	~0.03	~0.03	~0.03	~0.03	V0.00	V0.00	40.00	V0.03	NO.03	+-
IAH (Sum of Total)	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	<0.2	< 0.2	
ityrene	mg/kg	0.5					r0.5	r0.5	×0.5	r0.5	<0.5	r0.5	<0.5	×0.5	r0.5	r0.5	r0.5	<0.5	r0.5	r0.5	
otal MAH	mg/kg	0.2					-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	+
Ba .	IIIging	0.2																			+
PCBs (Total)	mg/kg	0.1	0	0	2		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
bicides	Illiging	0.1			-		-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	+
Dinoseb	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
orinated Hydrocarbons	grag	0							0		-5										+
Chlorinated hydrocarbons EPAVic	mg/kg	0.01			1		<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	-
Other chlorinated hydrocarbons (Total)		0.01	50	10			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-
.1.1.2-tetrachloroethane		0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
1,1-trichloroethane	mg/kg	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-
1,2,2-tetrachloroethane	mg/kg	0.01					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-
1,2-trichloroethane	mg/kg	0.02					<0.02	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.02	<0.04	_
1-dichloroethene	mg/kg	0.01					<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
2,4-trichlorobenzene	mg/kg	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
-dichlorobenzene		0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	+
-dichloroethane		0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	_
-dichlorobenzene	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	+
bon tetrachloride		0.01					<0.01	< 0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	< 0.01	_
		0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	+
orobenzene		0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	+
		0.01					< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	+
oroform							<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	+
loroform -1,2-dichloroethene	mg/kg	0.4							<0.02	rn.n2	en n2	<0.02	<0.02	<0.02	<0.02	×0.02	<0.02	×0.02	en n2	×0.02	_
loroform -1,2-dichloroethene chloromethane	mg/kg mg/kg	0.4	11	2.8		1.4	<0.02	<0.02													
oroform -1,2-dichloroethene hloromethane xachlorobutadiene	mg/kg mg/kg mg/kg	0.4		2.8			<0.02 <0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-
loroform -1,2-dichloroethene -thloromethane -xachlorobutadiene tyl chloride	mg/kg mg/kg	0.4	11 4.8	2.8		1.4 0.6	<0.02 <0.02	<0.02 <0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	_
iloroform -1,2-dichloroethene chloromethane exachlorobutadiene tyl chloride	mg/kg mg/kg mg/kg	0.4 0.02 0.02					<0.02 <0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
liotobenzene liotoform -1,2-dichioroethene -1,2-dichioroethene -binoromethane -binoromethane -yi chiorobustidene -yi chiorde	mg/kg mg/kg mg/kg mg/kg	0.4					<0.02 <0.02	<0.02 <0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	Ħ
iloroform -1,2-dichloroethene chloromethane exachlorobutadiene tyl chloride	mg/kg mg/kg mg/kg	0.4 0.02 0.02					<0.02 <0.02	<0.02 <0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	

Comments

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co



Summary of Soil Analytical Results

Location Code	NEL-ENV-BH016	NEL-ENV-BH017	NEL-ENV-BH018	NEL-ENV-BH018	NEL-ENV-BH022	NEL-ENV-BH022	NEL-ENV-BH022	NEL-ENV-BH023	NEL-ENV-BH024	NEL-ENV-BH024	NEL-ENV-BH025	NEL-ENV-BH025	NEL-ENV-BH026	NEL-ENV-BH026	NEL-ENV-BH027
Depth	1.5 - 1.5	0.5 - 0.6	0.5 - 0.6	1.5 - 1.6	0.2 - 0.3	0.5 - 0.6	1.5 - 1.6	0.6 - 0.7	0.5 - 0.6	1 - 1.1	0.3 - 0.4	1 - 1.1	0.1 - 0.2	0.5 - 0.6	0 - 0.1
Date	13/07/2018	1/06/2018	13/07/2018	13/07/2018	6/06/2018	6/06/2018	6/06/2018	5/06/2018	24/04/2018	24/04/2018	24/04/2018	24/04/2018	24/04/2018	24/04/2018	27/04/2018
Field ID	NEL-ENV-BH016_1.5	NEL-ENV-BH017_0.5-	NEL-ENV-BH018_0.5	NEL-ENV-BH018_1.5	NEL-ENV-BH022_0.2m	NEL-ENV-BH022_0.5m	NEL-ENV-BH022_1.5m	NEL-ENV-BH023_0.6-0.7	NEL-ENV-BH024_0.5-0.6	NEL-ENV-BH024_1	NEL-ENV-BH025_0	NEL-ENV-BH025_1	NEL-ENV-BH026_0	NEL-ENV-BH026_0	NEL-ENV-BH027_0.
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Lab Report Number	EM1811286	EM1809010	EM1811286	EM1811286	EM1809233	EM1809233	EM1809233	EM1809096	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1806989

The column The		_					Lab Report Number	EM1811286	EM1809010	EM1811286	EM1811286	EM1809233	EM1809233	EM1809233	EM1809096	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1806989
Secondary Seco							Trigger for Leachate															
Tell Control C	1/00-	Unit	EQL	621 Category B	621 Category C	621 Clean Fill	Testing		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Management of the control of the con		malka	0.02					<0.00	<0.00	<0.02	<0.02	<0.02	<0.02	<0.02	-0.02	×0.02	<0.02	<0.02	<0.02	×0.02	<0.00	×0.02
March Marc		0 0							-0.02	-0.02			-0.02					0.02	0.02			
Column C																						
Column C		Iliging	0.02					-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
Company		ma/ka	- 5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Secondary Control 19			-																			
Secondary Company		malka	0.03					×0.03	en na	en n3	en n3	en na	rn n3	en na	v0.03	en na	en na	en na	en na	rn n3	rn n3	<0.03
Second column						1																
According Part 18				50	10			-0.00						-0.00								
Second S								<0.05						<0.05								
March Marc																						
April																						
Section Property 10	Aldrin + Dieldrin			4.8	12		0.6	r0.03	<0.03	r0.03	r0.03	r0.03	r0.03	en na	r0.03	×0.03	r0.03	<0.03	r0.03	<0.00	<0.03	×0.03
Common Property Common Property Common Property Common Property Common Co																						
Company Mark Company				10	4		2															
Second S				10	-																	
Column C																						
ACCOUNTS Page 12																						
Marie Mari																						
Second Column Second Colum																						
Second S				50			40							-0.00								
Company Comp				UU	30		40															
Family Company Compa																						
Control Number Part 193								-0.00					-0.00	-0.00			-0.00	-0.00				
Part Part																						
Consistance																						
98°C (Arole) 940																						
Page Page																						
Page Page								-0.00	-0.00	-0.00		-0.00	-0.00	-0.00	-0.00		-0.00	-0.00		-0.00	-0.00	+
Part Part				4.8	1.2		0.6															
Manual M																						
Method Triple mg 02 12 mg mg 03 mg mg mg mg mg mg mg m																						
Miles Margin Ma		mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03
Spring March Mar		and the same	0.0					-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
Table Mar Polis (Table) Po																						
Contract Profession Page Contract Profession Page								<0.5	40.5	50.5	50.5	<0.5	40.5	<0.5	<0.5	-0.0	-0.0	-0.0		-0.0	-0.0	-0.0
PIGE (Fige) Physical Processor Physical Process		mg/kg	0.2					-	-	-	-	-	-	-		<u.z< td=""><td><0.2</td><td><0.2</td><td><0.2</td><td><u.z< td=""><td>40.2</td><td><0.2</td></u.z<></td></u.z<>	<0.2	<0.2	<0.2	<u.z< td=""><td>40.2</td><td><0.2</td></u.z<>	40.2	<0.2
Part Part		malka	0.1	0	0	2		e0.1	en 1	e0.1	e0.1	e0.1	×0.1	e0.1								
Display Company Comp		mg/kg	0.1	0				NO.1	~0.1	50.1	50.1	VO.1	~0.1	50.1	~0.1	~0.1	NO.1	~0.1	~0.1	~0.1	VO.1	~0.1
Contract Professioner Favor mode		ma/ka	- 5					e5	- 45	e5	e5	-25	e5	- 25	e5	e5	r5		e5	-65	- 25	-65
Contraction production (PMVK) mg/q 0.01 mg/q 0.0			- J					-~							~	~					~	~
Observationated hydrocarbons (radia) May Ost So Ost Os		ma/ka	0.01			1		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.09	0.06	< 0.01	< 0.01	< 0.01
1.1.1 1.1.2 1.1.	Other chlorinated hydrocarbons (Total)		0.01	50	10			< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	0.09	0.06	<0.01	< 0.01	<0.01
Till Till	1,1,1,2-tetrachloroethane		0.01					< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
1.7. Additionate mg/mg 0.04		mg/kg																				
1.1-definitioned from mp/lg 001																						
1.2.4 introducescence																						
1_2-definishmename																						
1.2-deficitoreshare																						
Tabeling transfer Table																						
Carbon testachoride																						
Cholestering																						
Chordom RgNg O2																						
GS 54 Althorethree																						
Definition Def																						
Note Note																						
Vary closed Vary closed				11	2.8		14	-0.4	-0.4	-0.4			-0.4	*0.4	-0.4		-0.4	-0.4	-0.4			
abelete I </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><0.02</td>								<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Albesto Description 0		9/79	0.02	7.0	1.2		0.0	-0.02	-0.02	-0.02	-0.04	-0.04	-0.04	-0.04	-0.04	-0.02	-0.02	-0.02	-0.02	-0.02	-0.04	-0.02
Abelesis Type		a	0.1									-		-		-	-		-	-		-
Alberton Type		Fibres	5							-	-				-		-		-	-		
weight of sample 9 0.01		-								-							-		-	-		
Comments		g	0.01									-					-		-	-	-	
	Comments									-	-		-			-		•	-	-		

Comments

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co



Summary of Soil Analytical Results

Location Code	NEL-ENV-BH027	NEL-ENV-BH028	NEL-ENV-BH028	NEL-ENV-BH028	NEL-ENV-BH029	NEL-ENV-BH029	NEL-ENV-BH030	NEL-ENV-BH030	NEL-ENV-BH030	NEL-ENV-BH030	NEL-ENV-BH031	NEL-ENV-BH031	NEL-ENV-BH031	NEL-ENV-BH032	NEL-ENV-BH032
Depth	0.3 - 0.4	0 - 0.1	0.5 - 0.6	1.5 - 1.6	0 - 0.1	0.5 - 0.6	0 - 0.1	0 - 0.1	0.5 - 0.6	0.9 - 1	0 - 0.1	0.5 - 0.6	1.5 - 1.6	1 - 1.1	2 - 2.1
Date	27/04/2018	24/04/2018	24/04/2018	24/04/2018	23/04/2018	23/04/2018	23/04/2018	23/04/2018	23/04/2018	23/04/2018	23/04/2018	23/04/2018	24/04/2018	1/06/2018	1/06/2018
Field ID	NEL-ENV-BH027_0	NEL-ENV-BH028_0	NEL-ENV-BH028_0	NEL-ENV-BH028_1	NEL-ENV-BH029_0-	NEL-ENV-BH029_0	NEL-ENV-BH030_0	QC3000	NEL-ENV-BH030_0	NEL-ENV-BH030_0.9-1.0	NEL-ENV-BH031_0.0-0.1	NEL-ENV-BH031_0.5-0.6	NEL-ENV-BH031_1.5-1.6	NEL-ENV-BH032_1.0-1.1	NEL-ENV-BH032_2.0-2.1
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Lab Report Number	EM1806989	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1807528	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1809010	EM1809010

						Lab Report Number	EM1806989	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1807528	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1806904	EM1809010	EM1809010
			1				4														
			1			EPA Victoria IWRG 621	4														
				EPA Victoria IWRG		Trigger for Leachate	4														
	Unit	EQL	621 Category B	621 Category C	621 Clean Fill	Testing	4														
VOCs							4									1					
TCE	mg/kg	0.02					<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	<0.02	<0.02	<0.02
Tetrachloroethene	mg/kg	0.02					< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
trans-1,2-dichloroethene	mg/kg	0.02					<0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	< 0.02	<0.02	<0.02	<0.02
SVOCs .			i		4		4														
4,6-Dinitro-2-methylphenol	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
OC Peeticides			i		4		4														
Other organochlorine pesticides - Lab Calc	mg/kg	0.03			4		< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03
Organochlorine pesticides EPAVic	mg/kg	0.03			1		<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03
Other organochlorine pesticides EPAVic	mg/kg	0.03		10			<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03		
4,4-DDE	mg/kg	0.05					<0.05	< 0.05	<0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05	<0.05	<0.05
a-BHC	mg/kg	0.03	1				<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03
Aldrin	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03
Aldrin + Dieldrin	mg/kg	0.03	4.8	1.2		0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
b-BHC	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chlordane	mg/kg	0.03		4		2	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03
Chlordane (cis)	mg/kg	0.03					< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chlordane (trans)	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03
d-BHC	mg/kg	0.03					< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03
4.4 DDD	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4 DDT	mg/kg	0.05					<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
DDT+DDE+DDD - Lab Calc	mg/kg	0.05		50		40	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin		0.03		30		40	<0.05	<0.05 <0.03	<0.05 <0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 e0.03	<0.05	<0.05
Endosulfan I	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
	mg/kg																				
Endosulfan II	mg/kg	0.03					<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	<0.03	<0.03
Endosulfan Sulfate	mg/kg	0.03			4		<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Endrin	mg/kg	0.03			4		<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Endrin aldehyde	mg/kg	0.03					<0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	<0.03	< 0.03	< 0.03
g-BHC (Lindane)	mg/kg	0.03					< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03
Heptachlor	mg/kg	0.03		1.2		0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03
Heptachlor epoxide	mg/kg	0.03					< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03
Hexachlorobenzene	mg/kg	0.03					<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	<0.03	< 0.03	< 0.03
Methoxychlor	mg/kg	0.03	1				<0.03	< 0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	<0.03	< 0.03	<0.03	< 0.03	< 0.03
MAH							4														
MAH (Sum of Total)	mg/kg	0.2	i		4		<0.2	< 0.2	<0.2	<0.2	< 0.2	< 0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2
Styrene	mg/kg	0.5	i		4		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5
Total MAH□	mg/kg	0.2					<0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-
PCBs							4														
PCBs (Total)	mg/kg	0.1	0	0	2		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Herbicides																					
Dinoseb	mg/kg	5					<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chlorinated Hydrocarbons																					
Chlorinated hydrocarbons EPAVic	mg/kg	0.01			1		<0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Other chlorinated hydrocarbons (Total)	mg/kg	0.01		10			<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,1,2-tetrachloroethane	mg/kg	0.01					<0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01
1,1,1-trichloroethane 1,1,2-tetrachloroethane	mg/kg	0.01		-			<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	< 0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01
1,1,2,2-tetrachioroethane	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02 <0.04	<0.02	<0.02 <0.04	<0.02	<0.02	<0.02	<0.02	<0.02 <0.04	<0.02
1,1,2-trichloroethane	mg/kg	0.04					<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,1-dichlorobenzene	mg/kg mg/kg	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1.2-dichlorobenzene	mg/kg	0.01					<0.02	<0.01	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02
1,2-dichloropenane	mg/kg mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-dichloroemane 1.4-dichlorobenzene	mg/kg mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Carbon tetrachloride	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chlorobenzene	mg/kg	0.02		-			<0.02	<0.01	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02	<0.01	<0.02	<0.02
Chloroform	mg/kg	0.02					<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
cis-1,2-dichloroethene	mg/kg	0.01					<0.01	<0.01	<0.01	<0.01	<0.01	< 0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dichloromethane	mg/kg	0.4					<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Hexachlorobutadiene	mg/kg	0.02		2.8		1.4	< 0.02	< 0.02	<0.02	<0.02	< 0.02	<0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	< 0.02	< 0.02
Vinyl chloride	mg/kg	0.02		1.2		0.6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Asbestos																1				1	
Asbestos Detected	g	0.1						1 .	-	-	-	-		-	-	T .		T .	-	-	
Asbestos (Trace)	Fibres	5						1 -	1 -	-	1 .	-	-			1 .			-	T .	-
Asbestos Type	-								1 -	-		-	-	-	-	1 -			-	1 .	-
weight of sample	g	0.01			1		-	-	-	-	-	-	-	-	-	-		-		-	-

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co

GHD

Appendix J Table 3 Summary of Soil Analytical Results

Ī	Location Code	NEL-ENV-BH032	NEL-LFB01	NEL-LFB01	NEL-LFB01	NEL-LFB01	NEL-LFB01	NEL-LFB01	NEL-LFB02	NEL-LFB02	NEL-LFB02	NEL-LFB02	NEL-LFB02	NEL-LFB02	NEL-LFB02	NEL-LFB02
[Depth	4 - 4.1	0.1 - 0.2	0.5 - 0.6	1 - 1.1	3 - 3.1	4 - 4.1	5 - 5.1	0.1 - 0.2	0.5 - 0.6	1 - 1.1	2 - 2.1	3 - 3.1	3 - 3.1	4 - 4.1	5 - 5.1
[Date	1/06/2018	10/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	10/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018
Ī	Field ID	NEL-ENV-BH032_4.0-4.1	NEL-LFB01_0.1m	NEL-LFB01_0.5m	NEL-LFB01_1.0m	NEL-LFB01_3.0m	NEL-LFB01_4.0m	NEL-LFB01_5.0m	NEL-LFB02_0.1m	NEL-LFB02_0.5m	NEL-LFB02_1.0m	NEL-LFB02_2.0m	NEL-LFB02_3.0m	QC3003	NEL-LFB02_4.0m	NEL-LFB02_5.0m
	Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal
Ī	Lab Report Number	EM1809010	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724

						Lab Report Number	EM1809010	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724
	Unit			EPA Victoria IWRG 621 Category C	EPA Victoria IWRG 621 Clean Fill	EPA Victoria IWRG 621 Trigger for Leachate Teating															
VOCs								1	1	1	1		1	1	1	1	1	1	1	1	1
TCE	mg/kg	0.02					< 0.02		-	< 0.02	< 0.02	-				-	< 0.02	< 0.02	< 0.02		
Tetrachloroethene	mg/kg	0.02					< 0.02	-	-	< 0.02	< 0.02	-		-	-	-	< 0.02	< 0.02	< 0.02	-	1 -
trans-1,2-dichloroethene	mg/kg	0.02					<0.02	-	-	< 0.02	< 0.02	-	-	-	-	-	< 0.02	< 0.02	< 0.02	-	-
SVOCs																					
4,6-Dinitro-2-methylphenol	mg/kg	5					<5	-	-	<5	<5	-	-			-	<5	<5	<5	-	
OC Peeticides																					
Other organochlorine pesticides - Lab Calc	mg/kg	0.03					<0.03	-	-	< 0.03	< 0.03	-	-	-	-	-	< 0.03	< 0.03	< 0.03	-	-
Organochlorine pesticides EPAVic	mg/kg	0.03			1		<0.03	-	-	< 0.03	< 0.03	-	-	-	-	-	<0.03	< 0.03	< 0.03	-	-
Other organochlorine pesticides EPAVic	mg/kg	0.03	50	10				-	-		-	-	-	-	-	-	-	-	-	-	-
4,4-DDE	mg/kg	0.05					<0.05	-	-	< 0.05	< 0.05	-	-	-	-	-	< 0.05	< 0.05	< 0.05	-	-
a-BHC	mg/kg	0.03					< 0.03	-	-	< 0.03	< 0.03	-	-	-	-	-	< 0.03	<0.03	< 0.03		-
Aldrin	mg/kg	0.03					< 0.03	-	-	< 0.03	< 0.03	-	-	-		-	< 0.03	< 0.03	< 0.03		-
Aldrin + Dieldrin	mg/kg	0.03	4.8	1.2		0.6	<0.03	-	-	< 0.03	< 0.03	-	-	-		-	< 0.03	< 0.03	< 0.03	-	-
b-BHC	mg/kg	0.03					< 0.03	-	-	< 0.03	< 0.03	-	-	-	-	-	< 0.03	< 0.03	< 0.03	-	-
Chlordane	mg/kg	0.03	16	4		2	< 0.03	-	-	< 0.03	< 0.03	-	-	-	-	-	< 0.03	< 0.03	< 0.03	-	-
Chlordane (cis)	mg/kg	0.03					<0.03	-	-	< 0.03	< 0.03	-	-	-	-	-	< 0.03	< 0.03	<0.03	<u> </u>	-
Chlordane (trans)	mg/kg	0.03					<0.03	-	-	< 0.03	< 0.03	-	-	-	-	-	< 0.03	< 0.03	<0.03	-	-
d-BHC	mg/kg	0.03					<0.03	-	-	<0.03	<0.03	-	-	-		-	<0.03	<0.03	<0.03	<u> </u>	-
4,4 DDD	mg/kg	0.05					<0.05	-	-	< 0.05	<0.05	-	-	-		-	<0.05	<0.05	<0.05	-	-
4,4 DDT	mg/kg	0.05					<0.05	-	-	< 0.05	< 0.05	-	-	-		-	< 0.05	<0.05	< 0.05		-
DDT+DDE+DDD - Lab Calc	mg/kg	0.05	50	50		40	<0.05	-	-	< 0.05	< 0.05	-	-	-	-	-	< 0.05	<0.05	< 0.05		
Dieldrin	mg/kg	0.03					< 0.03	-	-	< 0.03	<0.03	-	-	-		-	<0.03	< 0.03	< 0.03	-	-
Endosulfan I	mg/kg	0.03					< 0.03	-	-	< 0.03	< 0.03	-	-		-	-	< 0.03	< 0.03	< 0.03	-	-
Endosulfan II	mg/kg	0.03					< 0.03	-	-	<0.03	<0.03	-	-	-	-	-	<0.03	< 0.03	< 0.03	-	-
Endosulfan Sulfate	mg/kg	0.03					<0.03	-	-	< 0.03	<0.03	-	-	-	-	-	<0.03	< 0.03	<0.03		-
Endrin	mg/kg	0.03					<0.03	-	-	<0.03	< 0.03	-	-	-		-	< 0.03	<0.03	<0.03	-	
Endrin aldehyde	mg/kg	0.03					<0.03	-	-	< 0.03	<0.03	-	-	-		-	<0.03	<0.03	<0.03	-	-
g-BHC (Lindane)	mg/kg	0.03					<0.03	-	-	<0.03	< 0.03	-	-	-	-	-	< 0.03	< 0.03	< 0.03		-
Heptachlor	mg/kg	0.03	4.8	1.2		0.6	<0.03	-	-	< 0.03	< 0.03	-				-	<0.03	< 0.03	< 0.03		-
Heptachlor epoxide	mg/kg	0.03					< 0.03	-	-	<0.03	<0.03	-	-	-	+ :	-	<0.03	<0.03	<0.03		-
Hexachlorobenzene Methoxychlor	mg/kg mg/kg	0.03					<0.03 <0.03		-	< 0.03	<0.03	-		-	-	-	<0.03	< 0.03	<0.03		+
MAH	mg/kg	0.03					<0.03		-	<0.03	<0.03						<0.03	<0.03	<0.03		+
MAH (Sum of Total)	mg/kg	0.2					<0.2		-	< 0.2	< 0.2	-			-	-	<0.2	<0.2	< 0.2	-	
Styrene	mg/kg	0.5					<0.5	-		<0.5	< 0.5	-				-	<0.5	<0.5	<0.5	1 -	1 -
Total MAH□	mg/kg	0.2						-	-		-	-		-	-	-	-	-	-	-	-
PCBs																					1
PCBs (Total)	mg/kg	0.1	0	0	2		<0.1	-	-	< 0.1	< 0.1	-	-	-		-	< 0.1	< 0.1	< 0.1	-	
Herbioldes																					
Dinoseb	mg/kg	5					<5	-	-	<5	<5	-	-	-		-	<5	<5	<5	-	-
Chlorinated Hydrocarbons																					
Other chlorinated hydrocarbons EPAVic	mg/kg	0.01	50	10	1		<0.01 <0.01	-	-	<0.01	<0.01	-	-	-	-	-	<0.01	<0.01	<0.01		
1.1.1.2-tetrachloroethane	mg/kg	0.01	50	10			<0.01	-	-	<0.01	<0.01		-	-	-	-	<0.01	<0.01	<0.01		+
1,1,1-trichloroethane	mg/kg mg/kg	0.01					<0.01	- :		<0.01	<0.01	+ -	1	+ :	+ :	1 :	<0.01	<0.01	<0.01		+ -
1,1,2,2-tetrachloroethane	mg/kg	0.02					<0.02	-		<0.02	<0.02	-	-			-	<0.02	<0.02	<0.02		
1,1,2-trichloroethane	mg/kg	0.04					< 0.04	-	-	< 0.04	<0.04	-	-	-		-	<0.04	< 0.04	< 0.04	-	1
1,1-dichloroethene	mg/kg	0.01					< 0.01	-	-	< 0.01	< 0.01	-	-	-		-	< 0.01	< 0.01	< 0.01	-	
1,2,4-trichlorobenzene	mg/kg	0.01					< 0.01	-		< 0.01	< 0.01						< 0.01	< 0.01	< 0.01		
1,2-dichlorobenzene	mg/kg	0.02					<0.02	-	-	< 0.02	< 0.02	-	-	-	-	-	< 0.02	< 0.02	< 0.02		-
1,2-dichloroethane	mg/kg	0.02					<0.02	-	-	<0.02	< 0.02	-	-	-		-	<0.02	<0.02	<0.02		
1,4-dichlorobenzene Carbon tetrachloride	mg/kg	0.02					<0.02 <0.01	-	-	<0.02	<0.02	-	-	-	-		<0.02	< 0.02	<0.02		-
Chlorobenzene	mg/kg						<0.01 <0.02	-	-	<0.01	<0.01	-	+ -	-	+	-	<0.01	<0.01	<0.01		-
Chloroform	mg/kg mg/kg	0.02					<0.02	-	-	<0.02	<0.02		+ -	+-:-	+ :	+ - : -	<0.02	<0.02	<0.02		+
cis-1,2-dichloroethene	mg/kg	0.02					<0.01			<0.01	<0.02	+ :	1	+ :	+ :	+ :	<0.02	<0.01	<0.02		+-:-
Dichloromethane	mg/kg	0.4					<0.4	-	-	<0.4	<0.4	-		-		-	<0.4	<0.4	<0.4	<u> </u>	-
Hexachlorobutadiene	mg/kg	0.02	11	2.8		1.4	< 0.02	-		< 0.02	< 0.02	-		-		-	< 0.02	< 0.02	<0.02		1 -
Vinyl chloride	mg/kg	0.02	4.8	1.2		0.6	<0.02	-	-	<0.02	<0.02	-	-	-	-	-	<0.02	< 0.02	< 0.02		T
Asbestos																					
Asbestos Detected	9	0.1					-	-	Yes	No*	-	-	-	-	-	No	No	-		-	-
Asbestos (Trace)	Fibres	5					-	-	No	No	-	-	-	-	-	No	No	-			
Asbestos Type	-							-	Ch + Am	Ch	-	-	-	-		1	—	-	-		+
weight of sample	19	0.01						-	364	494	<u> </u>	-		-	-	374	269	1 -	<u> </u>		
Comments																					

Comments

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co

GHD

Appendix J Table 3 Summary of Soil Analytical Results

Location Code	NEL-LFB03	NEL-LFB04	NEL-LFB04	NEL-LFB04	NEL-LFB04	NEL-LFB04	NEL-LFB04						
Depth	0.1 - 0.2	0.5 - 0.6	1 - 1.1	2 - 2.1	3 - 3.1	4 - 4.1	5 - 5.1	0.1 - 0.2	0.5 - 0.6	2 - 2.1	3 - 3.1	4 - 4.1	5 - 5.1
Date	10/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	10/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018
Field ID	NEL-LFB03_0.1m	NEL-LFB03_0.5m	NEL-LFB03_1.0m	NEL-LFB03_2.0m	NEL-LFB03_3.0m	NEL-LFB03_4.0m	NEL-LFB03_5.0m	NEL-LFB04_0.1m	NEL-LFB04_0.5m	NEL-LFB04_2.0m	NEL-LFB04_3.0m	NEL-LFB04_4.0m	NEL-LFB04_5.0m
Sample Type	Normal												
Lab Report Number	EM1811150	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724

		_				Lab Report Number	EM1811150	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724
						EPA Victoria IWRG 621													
	Unit			EPA Victoria IWRG	EPA Victoria IWRG 621 Clean Fill	Trigger for Leachate													
/OCs	Unit	EQL	621 Category B	621 Category C	021 Clean Fill	Testing		1	1	1	1	1	1	1	1	1	1	1	1
TCE	mg/kg	0.02						+	<0.02	-0.00				_	<0.02	<0.02			
Tetrachloroethene	mg/kg	0.02					-	+	<0.02	0.06	-	-	-	-	<0.02	<0.02			
trans-1,2-dichloroethene	mg/kg	0.02						+	<0.02	<0.02	-			-	<0.02	<0.02			
BVOCs	Iliging	0.02						+	~0.02	~0.02					~0.02	~0.02	-		
4,6-Dinitro-2-methylphenol	mg/kg	5						-	<5	<5		-		-	<5	<5		+	
OC Pesticides	iliging							+	+										
Other organochlorine pesticides - Lab Calc	mg/kg	0.03						+	< 0.03	< 0.03					< 0.03	< 0.03			
Organochlorine pesticides EPAVic	mg/kg	0.03			1			+	<0.03	<0.03					<0.03	<0.03	_		
Other organochlorine pesticides EPAVic	mg/kg	0.03	50	10				+	-0.00	-0.00					-0.00	-0.00			
4.4-DDE	mg/kg	0.05	50	10					< 0.05	< 0.05	-		-		<0.05	< 0.05			
a-BHC	mg/kg	0.03							<0.03	<0.03	-				<0.03	<0.03			
Aldrin	mg/kg	0.03						+	< 0.03	<0.03					<0.03	<0.03			
Aldrin + Dieldrin	mg/kg	0.03	4.8	1.2		0.6	-	+	<0.03	<0.03	-	-	-	-	<0.03	<0.03			<u> </u>
			4.0	1.2		0.6	-				-	-	-	-			-	_	-
b-BHC	mg/kg	0.03					-		< 0.03	< 0.03	-	-	-		<0.03	< 0.03	-	-	
Chlordane	mg/kg	0.03	16	4		2	-	+	<0.03	<0.03	-	-	-	-	<0.03	<0.03	-	+	
Chlordane (cis)	mg/kg	0.03					-	-	<0.03	< 0.03	-	-	-	-	<0.03	<0.03	-	-	-
Chlordane (trans)	mg/kg	0.03					-	-	<0.03	<0.03	-	-	-	-	<0.03	<0.03	-	-	-
d-BHC	mg/kg	0.03					-		< 0.03	< 0.03	-	-	-	-	<0.03	< 0.03	-	-	-
4,4 DDD	mg/kg	0.05					-	-	< 0.05	<0.05	-	-	-	-	<0.05	<0.05	-	-	-
4,4 DDT	mg/kg	0.05					-	-	< 0.05	< 0.05	-	-	-	-	<0.05	< 0.05	-	-	-
DDT+DDE+DDD - Lab Calc	mg/kg	0.05	50	50		40		-	< 0.05	< 0.05	-	-	-	-	< 0.05	< 0.05	-	-	-
Dieldrin	mg/kg	0.03					-	-	< 0.03	< 0.03	-	-	-	-	< 0.03	< 0.03	-	-	-
Endosulfan I	mg/kg	0.03					-	-	< 0.03	< 0.03	-	-	-	-	< 0.03	< 0.03	-	-	-
Endosulfan II	mg/kg	0.03					-	-	< 0.03	< 0.03	-	-	-	-	< 0.03	< 0.03	-	-	-
Endosulfan Sulfate	mg/kg	0.03					-	-	< 0.03	< 0.03	-	-	-	-	< 0.03	< 0.03	-	-	-
Endrin	mg/kg	0.03						-	< 0.03	< 0.03	-	-	-	-	< 0.03	< 0.03	-	-	-
Endrin aldehyde	mg/kg	0.03						-	< 0.03	< 0.03				-	< 0.03	< 0.03			
g-BHC (Lindane)	mg/kg	0.03							< 0.03	< 0.03					< 0.03	< 0.03			
Heptachlor	mg/kg	0.03	4.8	1.2		0.6		+-:-	<0.03	<0.03					< 0.03	<0.03			+
Heptachlor epoxide	mg/kg	0.03							<0.03	<0.03					< 0.03	<0.03			
Hexachlorobenzene	mg/kg	0.03						+	<0.03	<0.03					<0.03	<0.03			
Methoxychlor	mg/kg	0.03					-	+	<0.03	<0.03			_	-	<0.03	<0.03	-		+
MAH	mg/kg	0.03						+	~0.03	~0.03				_	~0.03	NO.00			
MAH (Sum of Total)	mg/kg	0.2						+	<0.2	<0.2				-	<0.2	<0.2		+	+
Styrene	mg/kg	0.5							<0.5	<0.5	-				<0.5	<0.5			-
Total MAH	mg/kg	0.2					-	-		-0.0	-	-	-	-	-0.0		-	+ :	+ :
PCBs	mgrag	0.2						+	+						_		_		
PCBs (Total)	mg/kg	0.1	0	0	2			-	<0.1	< 0.1	-	-		-	<0.1	< 0.1	-	-	-
Herbicides	Iliging	0.1	0	· ·				+	~0.1	VO.1	_		_		~0.1	VO.1	-		+
Dinoseb	mg/kg	5						+	<5	<5		—			<5	<5			+
Chlorinated Hydrocarbons	IIIging							+	+				_				-		
Chlorinated hydrocarbons EPAVic	mg/kg	0.01			1			+	< 0.01	0.06		+ .			< 0.01	< 0.01			
Other chlorinated hydrocarbons (Total)	mg/kg	0.01	50	10				+ :-	<0.01	0.06					<0.01	<0.01			-
1,1,1,2-tetrachloroethane	mg/kg	0.01						+-:-	<0.01	<0.01	1	+ :	 		<0.01	<0.01	1	 	+-:
1,1,1-trichloroethane	mg/kg	0.01						+	<0.01	<0.01	+ -	1	+ :	—	<0.01	<0.01	+ :		+ -
1,1,2,2-tetrachloroethane	mg/kg	0.01						+	<0.02	<0.02	1	-			<0.02	<0.02	1	+ :	+
1,1,2-trichloroethane	mg/kg	0.02						+ :	<0.04	< 0.04	1	-	-	1	<0.04	< 0.04	1	+ -	+
1,1-dichloroethene	mg/kg	0.01					-		<0.01	<0.01	-				<0.01	<0.01		-	-
1,2,4-trichlorobenzene	mg/kg	0.01							<0.01	<0.01	-			-	<0.01	<0.01			-
1.2-dichlorobenzene	mg/kg	0.02					-	—	<0.02	<0.02	1 -			.	<0.02	<0.02	-	1 -	
1,2-dichloroethane	mg/kg	0.02					-		< 0.02	<0.02	-			T -	<0.02	<0.02			-
1,4-dichlorobenzene	mg/kg	0.02						-	<0.02	<0.02	-		-		<0.02	<0.02	-	-	-
Carbon tetrachloride	mg/kg	0.01							< 0.01	< 0.01	-				< 0.01	< 0.01		-	
Chlorobenzene	mg/kg	0.02						-	<0.02	< 0.02	-	-	-		<0.02	< 0.02	-	-	
Chloroform	mg/kg	0.02					-	-	< 0.02	< 0.02	-		-		< 0.02	< 0.02		-	-
cis-1,2-dichloroethene	mg/kg	0.01							< 0.01	< 0.01	-		-		< 0.01	< 0.01	-	-	
Dichloromethane	mg/kg	0.4					-	-	< 0.4	<0.4	-	-	-	-	<0.4	<0.4	-	-	-
Hexachlorobutadiene	mg/kg	0.02	11	2.8		1.4		1 .	< 0.02	< 0.02	-	-	-		< 0.02	< 0.02	-	1 .	-
Vinyl chloride	mg/kg	0.02	4.8	1.2		0.6	-	—	< 0.02	< 0.02	-		-		< 0.02	< 0.02		-	-
Asbestos		1						1	1		1	1		1		1		1	$\overline{}$
Asbestos Detected	g	0.1					-		No	No	-			-	No	No	-	-	-
Asbestos (Trace)	Fibres	5					-	1	No	No	-	-		-	No	No	-	-	-
	-						-	-	-	-	-	-		-	-	-	-	-	-
Asbestos Type									223	254					116	273			

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co



Summary of Soil Analytical Results

Location Code	NEL-LFB05	NEL-LFB05	NEL-LFB05	NEL-LFB05	NEL-LFB05	NEL-LFB05	NEL-LFB05	NEL-LFB06	NEL-LFB06	NEL-LFB06	NEL-LFB06	NEL-LFB06	NEL-LFB06	NEL-LFB07	NEL-LFB07	NEL-LFB07
Depth	0.1 - 0.2	0.5 - 0.6	1 - 1.1	2 - 2.1	3 - 3.1	4 - 4.1	5 - 5.1	0.1 - 0.2	0.5 - 0.6	2 - 2.1	3 - 3.1	4 - 4.1	5 - 5.1	0.1 - 0.2	0.5 - 0.6	2 - 2.1
Date	10/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018
Field ID	NEL-LFB05_0.1m	NEL-LFB05_0.5m	NEL-LFB05_1.0m	NEL-LFB05_2.0n	n NEL-LFB05_3.0m	NEL-LFB05_4.0m	NEL-LFB05_5.0m	NEL-LFB06_0.1m	NEL-LFB06_0.5m	NEL-LFB06_2.0m	NEL-LFB06_3.0m	NEL-LFB06_4.0m	NEL-LFB06_5.0m	NEL-LFB07_0.1m	NEL-LFB07_0.5m	NEL-LFB07_2.0m
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
I oh Report Number	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	FM1811724	EM1811150	EM1811150	EM1811150	EM1811150	FM1811724	EM1811724	EM1811724	EM1811150	EM1811150

						Lab Report Number	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724	EM1811724	EM1811150	EM1811150
						EPA Victoria IWRG 621																
			EDA Victorio IWDG	EPA Victoria IWRG		Trigger for Leachate																
	Unit	EOI			621 Clean Fill	Testing																
VOCs	Olik	EGL	021 Calegory B	621 Category C	021 Ciedii Fili	resung	+	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TCE	ma/ka	0.02							<0.02		< 0.02				<0.02	<0.02					<0.02	<0.02
Tetrachloroethene	mg/kg	0.02						-	0.02	-	< 0.02				< 0.02	< 0.02				-	< 0.02	< 0.02
trans-1,2-dichloroethene	mg/kg	0.02					-	-	<0.02	-	< 0.02	-	-	-	< 0.02	< 0.02	-				< 0.02	< 0.02
SVOCs																						
4,6-Dinitro-2-methylphenol	mg/kg	5					-	-	<5	-	<5	-	-	-	<5	<5	-				<5	<5
OC Peeticides																						
Other organochlorine pesticides - Lab Calc	mg/kg	0.03					-	-	< 0.03	-	< 0.03	-	-	-	<0.03	< 0.03	-	-		-	<0.03	< 0.03
Organochlorine pesticides EPAVic	mg/kg	0.03			1		-	-	< 0.03	-	< 0.03	-	-	-	< 0.03	<0.03	-	-	-	-	< 0.03	< 0.03
Other organochlorine pesticides EPAVic	mg/kg	0.03		10			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4-DDE	mg/kg	0.05					-	-	<0.05	-	<0.05		-	-	<0.05	<0.05	-	-	-	-	<0.05	<0.05
a-BHC	mg/kg	0.03						-	< 0.03		<0.03				< 0.03	<0.03					< 0.03	<0.03
Aldrin	mg/kg	0.03					-	-	< 0.03	-	<0.03	-	-	-	<0.03	< 0.03		-	-	-	< 0.03	<0.03
Aldrin + Dieldrin	mg/kg	0.03		1.2		0.6	-	-	<0.03	-	<0.03	-	-	-	< 0.03	< 0.03		-	-	-	< 0.03	< 0.03
b-BHC	mg/kg	0.03						-	<0.03	-	<0.03	-		-	<0.03	<0.03	-	-			<0.03	<0.03
Chlordane	mg/kg	0.03		4		2	-	-	< 0.03	-	<0.03				<0.03	< 0.03					< 0.03	< 0.03
Chlordane (cis)	mg/kg	0.03					-	-	< 0.03	-	<0.03	-	-	-	<0.03	<0.03	-	-	-	-	<0.03	<0.03
Chlordane (trans)	mg/kg	0.03					-	-		-		-	-	-			-	-	-	-		
d-BHC 4.4 DDD	mg/kg	0.03					-	-	< 0.03		< 0.03		-		<0.03	<0.03	-	-		-	<0.03	< 0.03
4,4 DDD 4.4 DDT	mg/kg						-		<0.05	-	<0.05	-		-	<0.05	<0.05		-		-	<0.05	<0.05
	mg/kg	0.05	50			40	-	-	<0.05	+	<0.05	-	-	_	<0.05	< 0.05	-	-	-	-	< 0.05	< 0.05
DDT+DDE+DDD - Lab Calc	mg/kg	0.05	50	50		40	-	-	< 0.05		<0.05	-	-	-	< 0.05	<0.05	-	-	-	-	<0.05	<0.05 <0.03
Dieldrin	mg/kg	0.03						-	<0.03	-	<0.03	-	-	-	<0.03	<0.03		-	-	-	<0.03	
Endosulfan I	mg/kg	0.03					-	-		-		-		-			-	-	-	-		<0.03
Endosulfan II	mg/kg	0.03					-	-	<0.03	-	<0.03	-	-	-	<0.03	< 0.03	-		-	-	< 0.03	<0.03
Endosulfan Sulfate	mg/kg	0.03					-	-	<0.03	-	<0.03	-	-	-	<0.03	<0.03	-	-	-	-	<0.03	<0.03
Endrin Endrin aldehyde	mg/kg	0.03						-	< 0.03	-	<0.03	-	- :		<0.03	<0.03	-	+ :	-	-	<0.03	<0.03 <0.03
g-BHC (Lindane)	mg/kg	0.03					-	-	<0.03		<0.03	-		-	<0.03	<0.03	-	-	-	-	<0.03	<0.03
	mg/kg			1.2		0.6	-	-		-		-		-			-	-		-		
Heptachlor Heptachlor epoxide	mg/kg	0.03		1.2		0.0	-	-	<0.03	-	<0.03	-	-	-	<0.03	<0.03		-	-	-	<0.03	< 0.03
- representation opening	mg/kg	0.03					- :	-	<0.03	-	<0.03	-	-	-	<0.03	<0.03		-	-	-	<0.03	< 0.03
Hexachlorobenzene Methoxychlor	mg/kg mg/kg	0.03							< 0.03	-	<0.03	-		-	<0.03	<0.03		-	-	-	<0.03 <0.03	<0.03 <0.03
MAH	mg/kg	0.03						-	<0.03	-	<0.03	-		-	<0.03	<0.03		-			<0.03	<0.03
MAH (Sum of Total)	mg/kg	0.2							<0.2	+ -	<0.2	-			< 0.2	<0.2				+	<0.2	<0.2
Styrene	mg/kg	0.5							r0.5		×0.5				<0.5	<0.5					<0.5	<0.5
Total MAH□	mg/kg	0.2							-0.0	_	-0.0		-		-0.0	-0.0	-	_	-		-0.0	-0.0
PCBs		-																				
PCBs (Total)	mg/kg	0.1	0	0	2				< 0.1		<0.1	-			<0.1	<0.1					<0.1	<0.1
Herbicides																						
Dinoseb	mg/kg	5					-	-	<5	-	<5	-	-	-	<5	<5	-	-			<5	<5
Chlorinated Hydrocarbons																						
Chlorinated hydrocarbons EPAVic	mg/kg	0.01			1		-	-	0.02	-	< 0.01	-	-	-	< 0.01	< 0.01	-	-	-	-	< 0.01	< 0.01
Other chlorinated hydrocarbons (Total)	mg/kg	0.01		10			-	-	0.02	-	<0.01		-	-	<0.01	< 0.01	-	-	-	-	<0.01	<0.01
1,1,1,2-tetrachloroethane	mg/kg	0.01					-	-	< 0.01	+	<0.01	-	-	-	<0.01	<0.01	-	-	-	-	<0.01	< 0.01
1,1,1-trichloroethane 1,1,2,2-tetrachloroethane	mg/kg mg/kg	0.01					-	+ :-	<0.01	+ :	<0.01	-	-	-	<0.01	<0.01	-	+ :-	-	+ :-	<0.01	<0.01 <0.02
1,1,2,1-trichloroethane	mg/kg mg/kg	0.02						-	<0.02	+ :-	<0.02	1	-	-	<0.02	<0.02	+ :	+ :	1	+ :-	<0.02	<0.02
1,1-dichloroethene	mg/kg	0.04					-	1	<0.01		<0.01	1	-		<0.01	<0.01	-	 		+ :	<0.01	<0.01
1,2,4-trichlorobenzene	mg/kg	0.01					-		<0.01	-	<0.01			-	<0.01	<0.01	-	-		1 .	<0.01	<0.01
1,2-dichlorobenzene	mg/kg	0.02					-		< 0.02		<0.02				< 0.02	< 0.02	-	-	-	-	< 0.02	< 0.02
1,2-dichloroethane	mg/kg	0.02					-	-	< 0.02	-	<0.02	-	-	-	<0.02	< 0.02	-	-	-	-	< 0.02	< 0.02
1,4-dichlorobenzene	mg/kg	0.02					-		< 0.02	-	<0.02	-	-		< 0.02	< 0.02	-		-	-	< 0.02	< 0.02
Carbon tetrachloride	mg/kg	0.01							< 0.01	-	<0.01	-	-		<0.01	< 0.01	-	-			<0.01	< 0.01
Chlorobenzene	mg/kg	0.02					-	-	<0.02	-	<0.02	-	-	-	<0.02	<0.02	-	-	-	_	< 0.02	<0.02
Chloroform	mg/kg	0.02					-	-	<0.02	-	<0.02		-	-	<0.02	<0.02	-	-	-	-	<0.02	<0.02
cis-1,2-dichloroethene	mg/kg	0.01					-		<0.01	-	<0.01	-	-	-	<0.01	<0.01	-	-	-	-	<0.01	<0.01
Dichloromethane	mg/kg	0.4	11	2.8		14	-	-	<0.4	-	<0.4	-	-	-	<0.4	<0.4	-	-	-	1	< 0.4	<0.4
Hexachlorobutadiene Vinyl chloride	mg/kg	0.02	4.8	1.2		0.6	<u> </u>	+ -	<0.02	+	<0.02	+	+ -	 	<0.02	-0.02	+ -	+	+	+	<0.02	
		0.02	4.0	1.2		0.0			<0.02	+	*U.UZ				*0.02	<0.02	+	+ -	+ -		<0.02	<0.02
	mg/kg									_	-1	1		1			1		1	1		
Asbestos	mg/kg	0.1							No	No			-		No	No					No	No
	g Fibres	0.1					- :	- :	No No	No No	-	-	-	-	No No	No No		-	-	-	No No	No No
Asbestos Asbestos Detected	9							-			-	-	-	-			-	-	-	-		
Asbestos Asbestos Detected Asbestos (Trace)	9						-	-			-	-	-	-			-	-	-	-		

Comments

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co



Summary of Soil Analytical Results

Location Code	NEL-LFB07	NEL-LFB07	NEL-LFB07	NEL-LFB08	NEL-LFB08	NEL-LFB08	NEL-LFB08	NEL-LFB08	NEL-LFB08	NEL-LFB09	NEL-LFB09	NEL-LFB09	NEL-LFB09	NEL-LFB09
Depth	3 - 3.1	4 - 4.1	5 - 5.1	0.1 - 0.2	0.5 - 0.6	2 - 2.1	3 - 3.1	4 - 4.1	5 - 5.1	0.1 - 0.2	0.5 - 0.6	1 - 1.1	2 - 2.1	3 - 3.1
Date	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018
Field ID	NEL-LFB07_3.0m	NEL-LFB07_4.0m	NEL-LFB07_5.0m	NEL-LFB08_0.1m	NEL-LFB08_0.5m	NEL-LFB08_2.0m	NEL-LFB08_3.0m	NEL-LFB08_4.0m	NEL-LFB08_5.0m	NEL-LFB09_0.1m	NEL-LFB09_0.5m	NEL-LFB09_1.0m	NEL-LFB09_2.0m	NEL-LFB09_3.0m
Sample Type	Normal													
Leb Report Number	FM1811150	EM1811150	FM1811724	EM1811724	EM1811150	EM1811150	FM1811150	EM1811150	EM1811724	EM1811724	FM1811150	EM1811150	FM1811150	FM1811150

						Lab Report Number	EM1811150	EM1811150	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150
	Unit				EPA Victoria IWRG	EPA Victoria IWRG 621 Trigger for Leachate Testing														
/OCs	Unit	EQL	021 Cittegory B	621 Category C	021 Clean Fill	leating		1	1	1	1	1	1	1	1	1	1	1	1	1
TCE												<0.02		<0.02			<0.02	<0.02		_
	mg/kg	0.02						-	-	-			-		-	-		0.00	-	
Tetrachloroethene	mg/kg	0.02						-		-		<0.02		<0.02	-	-	<0.02	<0.02	-	
trans-1,2-dichloroethene	mg/kg	0.02					-	-	-			<0.02	-	<0.02	-	-	<0.02	<0.02	-	
SVOCs .																				
4,6-Dinitro-2-methylphenol	mg/kg	5						-				<5		<5	-	-	<5	<5	-	
OC Peeticides																				
Other organochlorine pesticides - Lab Calc	mg/kg	0.03										< 0.03	-	< 0.03	-		< 0.03	< 0.03		
Organochlorine pesticides EPAVic	mg/kg	0.03			1							< 0.03		< 0.03			< 0.03	< 0.03		
Other organochlorine pesticides EPAVic	mg/kg	0.03	50	10				-							-	-	-	-	-	
4,4-DDE	mg/kg	0.05										< 0.05		< 0.05			< 0.05	< 0.05		
a-BHC	mg/kg	0.03							-			<0.03		<0.03			<0.03	<0.03		
Aldrin															-					
	mg/kg	0.03						-		-		<0.03		< 0.03	-	-	< 0.03	<0.03		
Aldrin + Dieldrin	mg/kg	0.03	4.8	1.2		0.6			-			< 0.03	-	<0.03			<0.03	< 0.03	-	-
b-BHC	mg/kg	0.03					-	-	-	-	-	< 0.03	-	< 0.03	-	-	< 0.03	< 0.03	-	
Chlordane	mg/kg	0.03	16	4		2						< 0.03	-	< 0.03	-		< 0.03	< 0.03		
Chlordane (cis)	mg/kg	0.03									-	< 0.03		< 0.03			< 0.03	< 0.03		-
Chlordane (trans)	mg/kg	0.03										<0.03		<0.03			<0.03	<0.03		
d-BHC	mg/kg	0.03						-		-		<0.03		<0.03	-	-	<0.03	<0.03		-
											-								_	
4,4 DDD	mg/kg	0.05								-	-	<0.05	-	< 0.05	-	-	<0.05	< 0.05	-	
4,4 DDT	mg/kg	0.05							-	-	-	< 0.05	-	<0.05	-	-	<0.05	< 0.05	-	-
DDT+DDE+DDD - Lab Calc	mg/kg	0.05	50	50		40			-	-	-	< 0.05	-	< 0.05	-	-	< 0.05	< 0.05	-	-
Dieldrin	mg/kg	0.03										< 0.03		< 0.03			< 0.03	< 0.03		
Endosulfan I	mg/kg	0.03						-		-		< 0.03		< 0.03			< 0.03	< 0.03		-
Endosulfan II	mg/kg	0.03						-				<0.03		<0.03			<0.03	<0.03		
		0.03						1	-			<0.03		<0.03	1		<0.03	<0.03		
Endosulfan Sulfate	mg/kg						-	-	-	-										-
Endrin	mg/kg	0.03						-		-	-	<0.03		<0.03	-		< 0.03	<0.03	-	-
Endrin aldehyde	mg/kg	0.03										< 0.03		< 0.03	-	-	< 0.03	< 0.03	-	-
g-BHC (Lindane)	mg/kg	0.03					-		-			< 0.03		< 0.03			< 0.03	< 0.03		-
Heptachlor	mg/kg	0.03	4.8	1.2		0.6						< 0.03		< 0.03			< 0.03	< 0.03		
Heptachlor epoxide	mg/kg	0.03										< 0.03		<0.03			<0.03	<0.03		
Hexachlorobenzene	mg/kg	0.03										<0.03		<0.03			<0.03	<0.03		
Methoxychlor		0.03										<0.03		<0.03			<0.03			
Methoxychior	mg/kg	0.03					-	-		-		50.03		<0.03			<0.03	<0.03		
																				_
MAH (Sum of Total)	mg/kg	0.2						-		-		<0.2		<0.2		-	<0.2	<0.2		-
Styrene	mg/kg	0.5					-	-	-		-	<0.5	-	< 0.5	-	-	< 0.5	<0.5	-	
Total MAH□	mg/kg	0.2							-			-	-				-		-	-
PCBs																				
PCBs (Total)	mg/kg	0.1	0	0	2							< 0.1		< 0.1			< 0.1	<0.1		
Herbicides																				
Dinoseb	mg/kg	5										<5		<5			<5	<5		-
Chlorinated Hydrocarbons																				_
Chlorinated hydrocarbons EPAVic	mg/kg	0.01			1							< 0.01		< 0.01			< 0.01	< 0.01	-	
Other chlorinated hydrocarbons (Total)	mg/kg	0.01	50	10	· · · · · · · · · · · · · · · · · · ·					-		<0.01		<0.01	-	-	<0.01	<0.01		
1.1.1.2-tetrachloroethane	mg/kg	0.01						 		 	1	<0.01		<0.01	+		<0.01	<0.01	-	+ :
1,1,1-trichloroethane	mg/kg	0.01						 		+ :	+	<0.01		<0.01	+ - : -	+ -	<0.01	<0.01	+ :	+
1,1,2,2-tetrachloroethane							-		-		-		-	<0.01	<u> </u>		<0.01	<0.02	+ -	
	mg/kg	0.02										<0.02 <0.04					<0.02			
1,1,2-trichloroethane	mg/kg	0.04					-	-	-		-	<0.04	-	<0.04	-	-	<0.04	<0.04		
1,1-dichloroethene	mg/kg	0.01								-			-	<0.01		-	<0.01	<0.01		
1,2,4-trichlorobenzene	mg/kg	0.01						-	-	-	-	< 0.01	-	< 0.01	-	-	< 0.01	<0.01	-	-
1,2-dichlorobenzene	mg/kg	0.02							-	-	-	< 0.02	-	< 0.02	-	-	< 0.02	<0.02	-	-
1,2-dichloroethane	mg/kg	0.02							-	-	-	<0.02	-	<0.02	-	-	<0.02	<0.02	-	-
1,4-dichlorobenzene	mg/kg	0.02						-			-	<0.02	-	<0.02	-		<0.02	<0.02	-	
Carbon tetrachloride	mg/kg	0.01						-	-			< 0.01	-	< 0.01	-	-	< 0.01	< 0.01	-	-
Chlorobenzene	mg/kg	0.02						-				< 0.02		< 0.02	-		< 0.02	<0.02		
Chloroform	mg/kg	0.02						-				<0.02	-	<0.02	-		< 0.02	< 0.02		
cis-1,2-dichloroethene	mg/kg	0.01							-	-		<0.01	-	<0.01	-	-	<0.01	<0.01	-	-
Dichloromethane	mg/kg	0.4						-				<0.4	-	<0.4	-	-	<0.4	<0.4	-	-
Hexachlorobutadiene	mg/kg	0.02	11	2.8		1.4		1				<0.02		<0.02	+ :		<0.02	<0.02		-
Vinyl chloride		0.02	4.8	1.2		0.6	-	+		+	+ -	<0.02	+	<0.02	+		<0.02	<0.02		+
	mg/kg	0.02	4.8	1.2		0.8		-	-	-		<0.02	_	<0.02			<0.02	<0.02		
sbestos	1	\perp							_		1							—		
Asbestos Detected	g	0.1						-	-	-	No	No	-		-		-	No	No	_
Asbestos (Trace)	Fibres	5					-		-		No	No	-	-	-		-	No	No	
Asbestos Type	-							-		-	-	-	-	-	-	-		-	-	
weight of sample	g	0.01								-	179	404	-	-	-	-		600	284	-

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co

GHD

Appendix J Table 3 Summary of Soil Analytical Results

Location Code	NEL-LFB09	NEL-LFB10	NEL-LFB10	NEL-LFB10	NEL-LFB10	NEL-LFB10	NEL-LFB10	NEL-LFB10
Depth	4 - 4.1	0.1 - 0.2	0.5 - 0.6	2 - 2.1	3 - 3.1	4 - 4.1	4 - 4.1	5 - 5.1
Date	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	11/07/2018	10/07/2018
Field ID	NEL-LFB09_4.0m	NEL-LFB10_0.1m	NEL-LFB10_0.5m	NEL-LFB10_2.0m	NEL-LFB10_3.0m	NEL-LFB10_4.0m	QC3002	NEL-LFB10_5.0m
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal
Lab Report Number	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724

						Lab Report Number	EM1811724	EM1811724	EM1811150	EM1811150	EM1811150	EM1811150	EM1811150	EM1811724
	Unit			EPA Victoria IWRG 621 Category C	EPA Victoria IWRG 621 Clean Fill	EPA Victoria IWRG 621 Trigger for Leachate Teating								
OCs .	Olik	Luc	OL 1 CEREGOLY D	OL I CEMPONY C	OLT CIGUIT III	reeung	+	1	1	1	1	1	1	1
TCE	mg/kg	0.02								<0.02		<0.02	<0.02	
								-	-					-
Tetrachloroethene	mg/kg	0.02								<0.02		< 0.02	<0.02	
trans-1,2-dichloroethene	mg/kg	0.02					-			<0.02	-	< 0.02	<0.02	
/OCs														
4,6-Dinitro-2-methylphenol	mg/kg	5						-		<5		<5	<5	-
C Peeticides														
Other organochlorine pesticides - Lab Calc	mg/kg	0.03								< 0.03		< 0.03	< 0.03	
Organochlorine pesticides EPAVic	mg/kg	0.03			1					< 0.03		< 0.03	< 0.03	-
Other organochlorine pesticides EPAVic	mg/kg	0.03	50	10					-	-			-	-
4.4-DDE	mg/kg	0.05								< 0.05		< 0.05	< 0.05	
a-BHC	mg/kg	0.03								< 0.03		< 0.03	< 0.03	
Aldrin	mg/kg	0.03								<0.03		<0.03	< 0.03	
Aldrin + Dieldrin				1.2		0.6		-	-					-
	mg/kg	0.03	4.8	1.2		0.6		-	-	< 0.03	-	<0.03	< 0.03	-
b-BHC	mg/kg	0.03						-		<0.03	-	<0.03	< 0.03	-
Chlordane	mg/kg	0.03	16	4		2			-	<0.03	-	<0.03	<0.03	-
Chlordane (cis)	mg/kg	0.03						-	-	<0.03	-	<0.03	< 0.03	-
Chlordane (trans)	mg/kg	0.03								< 0.03		< 0.03	< 0.03	
d-BHC	mg/kg	0.03							1 .	< 0.03		<0.03	<0.03	1
4.4 DDD	mg/kg	0.05					- :	-	-	<0.05	- :	<0.05	<0.05	-
								 	+		+			+
4,4 DDT	mg/kg	0.05							-	< 0.05	-	<0.05	<0.05	+ -
DDT+DDE+DDD - Lab Calc	mg/kg	0.05	50	50		40	-	-	-	< 0.05	-	< 0.05	< 0.05	-
Dieldrin	mg/kg	0.03								< 0.03	-	< 0.03	< 0.03	-
Endosulfan I	mg/kg	0.03								< 0.03		< 0.03	< 0.03	-
Endosulfan II	mg/kg	0.03								< 0.03		< 0.03	< 0.03	
Endosulfan Sulfate	mg/kg	0.03								< 0.03		< 0.03	< 0.03	
Endrin	mg/kg	0.03								< 0.03		<0.03	<0.03	
		0.03						-						
Endrin aldehyde	mg/kg							-		< 0.03	-	< 0.03	< 0.03	
g-BHC (Lindane)	mg/kg	0.03								<0.03		<0.03	< 0.03	-
Heptachlor	mg/kg	0.03	4.8	1.2		0.6				< 0.03		< 0.03	< 0.03	-
Heptachlor epoxide	mg/kg	0.03								< 0.03		< 0.03	< 0.03	-
Hexachlorobenzene	mg/kg	0.03								< 0.03		< 0.03	< 0.03	
Methoxychlor	mg/kg	0.03								< 0.03		< 0.03	< 0.03	
AH	IIIging	0.00								-0.00		-0.00	-0.00	
MAH (Sum of Total)	mg/kg	0.2								<0.2		<0.2	<0.2	
Styrene	mg/kg	0.5									_			
Total MAH□									-	<0.5	-	<0.5	<0.5	-
	mg/kg	0.2								-	-			-
CBs														
PCBs (Total)	mg/kg	0.1	0	0	2		-		-	<0.1	-	< 0.1	<0.1	-
erbicides														
Dinoseb	mg/kg	5								<5	-	<5	<5	-
hiorinated Hydrocarbons														
Chlorinated hydrocarbons EPAVic	mg/kg	0.01			1			-		< 0.01	-	<0.01	< 0.01	-
Other chlorinated hydrocarbons (Total)	mg/kg	0.01	50	10						< 0.01	-	< 0.01	< 0.01	
1,1,1,2-tetrachloroethane	mg/kg	0.01								< 0.01		< 0.01	< 0.01	
1,1,1-trichloroethane	mg/kg	0.01								<0.01		<0.01	<0.01	1
1,1,2,2-tetrachloroethane	mg/kg	0.02								<0.02		<0.02	<0.02	+ :
1,1,2-trichloroethane	mg/kg	0.02					- :	-	-	<0.04	-	<0.02	<0.02	+ :
1,1-dichloroethene	mg/kg	0.04					- :	- :	- :	<0.01	- :	<0.01	<0.01	+ :
1,2,4-trichlorobenzene	mg/kg mg/kg	0.01					- :	- :	-	<0.01	-	<0.01	<0.01	+ :
								-	-	<0.01		<0.01	<0.01	-
1,2-dichlorobenzene	mg/kg	0.02					-	-	-	<0.02	-	<0.02 <0.02	<0.02 <0.02	-
1,2-dichloroethane	mg/kg	0.02												
1,4-dichlorobenzene	mg/kg	0.02						-	-	<0.02	-	<0.02	<0.02	-
Carbon tetrachloride	mg/kg	0.01							-	<0.01	-	<0.01	< 0.01	-
Chlorobenzene	mg/kg	0.02						-	-	<0.02	-	<0.02	<0.02	-
Chloroform	mg/kg	0.02								<0.02		<0.02	<0.02	
cis-1,2-dichloroethene	mg/kg	0.01						-		< 0.01	-	< 0.01	< 0.01	-
Dichloromethane	mg/kg	0.4								<0.4	-	<0.4	<0.4	-
Hexachlorobutadiene	mg/kg	0.02	11	2.8		1.4				< 0.02		< 0.02	< 0.02	-
Vinyl chloride	mg/kg	0.02	4.8	1.2		0.6				< 0.02		< 0.02	< 0.02	
bestos		1						1			1			
Asbestos Detected	a	0.1						.	No	No	.		+ .	+ -
Asbestos (Trace)	Fibres	5						 	No	No	1			+ :
Asbestos Type	-	-						<u> </u>	INO	140			+ -	
	1	0.01							303	172	-		-	+ -
weight of sample	19													

No asbestos found, at the reporting limit of 0.1 g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at co



				Location Code	NEL DIRECT	NEL-BH030	NET DITION	NEL-BH030	NEL BUIGGO	NET DITION	NEL-BH033	NEL-BH033	NEL-BH033	NEL-BH034	INC. DUMA	NEL-BH034	NEL BUIGG	NEL-BH034
					NEL-BH030		NEL-BH030		NEL-BH033	NEL-BH033					NEL-BH034		NEL-BH034	
				Depth	17.02 - 17.12	18.68 - 18.78	26.71 - 26.81	43.25 - 43.35	12.4 - 12.5	21.4 - 21.5	24.68 - 24.78	26.33 - 26.43	29.74 - 29.84	7.9 - 8	9.28 - 9.38	12.05 - 12.15	15.95 - 16.05	22.9 - 23
				Date	2/09/2017	2/09/2017	2/09/2017	9/09/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	12/07/2017
				Field ID	NEL-BH030 (17.02m)	NEL-BH030 (18.68m)	NEL-BH030 (26.71m)	NEL-BH030 (43.25m)	NEL-BH033 (12.4m)	NEL-BH033 (21.4m)	NEL-BH033 (24.68m)	NEL-BH033 (26.33m)	NEL-BH033 (29.74m)	NEL-BH034 (7.9m)	NEL-BH034 (9.28m)	NEL-BH034 (12.05m)	NEL-BH034 (15.95m)	NEL-BH034 (22.9m)
				Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
				Lab Report Numbe	r EM1712819	EM1712819	EM1712819	EM1712819	EM1712011	EM1712011	EM1712011	EM1712011	EM1712011	EM1712011	EM1712011	EM1712011	EM1712011	EM1712011
			EPA Victoria IWRG	EPA Victoria IWRG													*	
	Unit	EQL	621 Category B -	621 Category C -														
lajor ions																		
Fluoride	mg/L	0.1	600	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride (filtered)	mg/L	0.1	600	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-
letals																		
Arsenic (filtered)	mg/L	0.1	2.8	0.7	<0.1	< 0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	< 0.1	<0.1	< 0.1	< 0.1	< 0.1
Cadmium (filtered)	mg/L	0.05	0.8	0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chromium (III+VI) (filtered)	mg/L	0.1	20	5	<0.1	< 0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	< 0.1	<0.1	< 0.1	< 0.1	<0.1
Copper (filtered)	mg/L	0.1	800	200	<0.1	< 0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	< 0.1	<0.1	< 0.1	<0.1
Lead (filtered)	mg/L	0.1	4	1	<0.1	< 0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	< 0.1	0.1	< 0.1	<0.1
Mercury (filtered)	mg/L	0.001	0.4	0.1	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Nickel (filtered)	mg/L	0.1	8	2	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Tin (filtered)	mg/L	0.1			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (filtered)	mg/L	0.1	1200	300	<0.1	< 0.1	< 0.1	<0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.6	0.2
AHs																		
Benzo(a) pyrene	µg/L	0.5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-



					I	I	I		T					I	I		T
				Location Code	NEL-BH042		NEL-BH042	NEL-BH043		NEL-BH043	NEL-BH043	NEL-BH043	NEL-BH057	NEL-BH057	NEL-BH057	NEL-BH057	NEL-BH057
				Depth	15.5 - 15.6	31.46 - 31.56	45.75 - 45.85	5.95 - 6.05	11 - 11.1	11.57 - 11.67	18.4 - 18.5	34.6 - 34.7	5.64 - 5.74	15.43 - 15.53	21 - 21.1	40.85 - 40.95	48 - 48.1
				Date	16/09/2017	16/09/2017	16/09/2017	12/07/2017	12/07/2017	12/07/2017	12/07/2017	11/07/2017	2/09/2017	2/09/2017	2/09/2017	2/09/2017	2/09/2017
				Field ID	NEL-BH042 (15.5m)	NEL-BH042 (31.46m)	NEL-BH042 (45.75m)	NEL-BH043 (5.95m)	NEL-BH043 (11.00m)	NEL-BH043 (11.57m)	NEL-BH043 (18.4m)	NEL-BH043 (34.6m)	NEL-BH057 (5.64m)	NEL-BH057 (15.43m)	NEL-BH057 (21.0m)	NEL-BH057 (40.85m)	NEL-BH057 (48.0m)
				Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
				Lab Report Number	EM1712819	EM1712819	EM1712819	EM1712011	EM1712011	EM1712011	EM1712011	EM1712011	EM1712819	EM1712819	EM1712819	EM1712819	EM1712819
			EPA Victoria IWRG	EPA Victoria IWRG						•			•			•	
	Unit	EQL	621 Category B -	621 Category C -													
Major Ions																	
Fluoride	mg/L	0.1	600	150	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride (filtered)	mg/L	0.1	600	150	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																	
Arsenic (filtered)	mg/L	0.1	2.8	0.7	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Cadmium (filtered)	mg/L	0.05	0.8	0.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chromium (III+VI) (filtered)	mg/L	0.1	20	5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Copper (filtered)	mg/L	0.1	800	200	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Lead (filtered)	mg/L	0.1	4	1	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Mercury (filtered)	mg/L	0.001	0.4	0.1	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Nickel (filtered)	mg/L	0.1	8	2	<0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	< 0.1	< 0.1	< 0.1	0.2	0.4	< 0.1
Tin (filtered)	mg/L	0.1			-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (filtered)	mg/L	0.1	1200	300	0.6	<0.1	<0.1	0.2	0.3	0.2	0.2	0.2	0.2	<0.1	0.2	0.1	0.1
PAHs																	
Benzo(a) pyrene	μg/L	0.5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-



				Location Code	NEL-BH058	NEL-BH058	NEL-BH058	NEL-BH079	NEL-BH108	NEL-BH108	NEL-BH108	NEL-BH109	NEL-BH109	NEL-BH110	NEL-BH120	NEL-BH120
				Depth	18.22 - 18.32	19.07 - 19.17	22.85 - 22.95		0.2 - 0.3	0.7 - 0.8	1.2 - 1.3	0.2 - 0.3	1.1 - 1.2	0.5 - 0.6		
				Date	24/07/2017	24/07/2017	24/07/2017	10/07/2018	19/02/2018	19/02/2018	19/02/2018	5/03/2018	5/03/2018	13/03/2018	5/07/2018	5/07/2018
				Field ID	NEL-BH058 (18.22m)	NEL-BH058 (19.07m)	NEL-BH058 (22.85m)	NEL-BH079_1.0m	NEL-BH108_0.2m	NEL-BH108_0.7m	NEL-BH108_1.2m	NEL-BH109_0.2m	NEL-BH109_1.1m	NEL-BH110_0.5m	NEL-BH120_0.2m	NEL-BH120_1.0m
				Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
				Lab Report Number	EM1712011	EM1712011	EM1712011	EM1812499	EM1803702	EM1803702	EM1803702	EM1805006	EM1805006	EM1805014	EM1812499	EM1812499
			EPA Victoria IWRG	EPA Victoria IWRG		•		•	•	•	•	•	•	•	•	
	Unit	EQL	621 Category B -	621 Category C -												
lajor Iona																
Fluoride	mg/L	0.1	600	150	-	-	-	-	0.2	0.2	0.2	-	-	-	-	-
Fluoride (filtered)	mg/L	0.1	600	150	-	-	-	-	-	-	-	-	-	-	-	-
letals																
Arsenic (filtered)	mg/L	0.1	2.8	0.7	< 0.1	< 0.1	< 0.1	-	-	-	-	-	-	-	-	-
Cadmium (filtered)	mg/L	0.05	0.8	0.2	< 0.05	< 0.05	< 0.05	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (filtered)	mg/L	0.1	20	5	< 0.1	< 0.1	< 0.1	-	-	-	-	-	-	-	-	-
Copper (filtered)	mg/L	0.1	800	200	<0.1	< 0.1	< 0.1	-	-	-	-	-	-	-	-	-
Lead (filtered)	mg/L	0.1	4	1	<0.1	< 0.1	< 0.1	-	-	-	<0.1	<0.1	-	<0.1	< 0.1	-
Mercury (filtered)	mg/L	0.001	0.4	0.1	< 0.0010	< 0.0010	<0.0010	-	-	-	-	-	-	-	-	-
Nickel (filtered)	mg/L	0.1	8	2	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	-	-	-	< 0.1
Tin (filtered)	mg/L	0.1			-	-	-	-	-	-	-	-	-	-	-	-
Zinc (filtered)	mg/L	0.1	1200	300	0.2	0.2	0.2	-	-	-	-	-	-	-	-	-
AHa																
Benzo(a) pyrene	μg/L	0.5	4	1	-	-	-	-	-	-	-	-	< 0.5	-	-	-



				Location Code	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH125	NEL-BH126	NEL-BH128A	NEL-BH128A	NEL-BH128A	NEL-BH128A	NEL-BH135	NEL-BH138	NEL-BH138	NEL-BH140
				Depth	0.4 - 0.5	0.75 - 0.85	0.75 - 0.85	1 - 1.1	1 - 1.1	1.5 - 1.6	3 - 3.1	0.3 - 0.4	0.23 - 0.33	0.45 - 0.55	1.2 - 1.3	1.2 - 1.3	0.2 - 0.3	0.35 - 0.45	1 - 1.1	0.2 - 0.3
				Date	17/01/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018	17/01/2018	23/01/2018	17/01/2018	30/01/2018	30/01/2018	30/01/2018	30/01/2018	6/07/2018	22/06/2018	22/06/2018	27/02/2018
				Field ID	NEL-BH125_0.4	NEL-BH125_0.75	NEL-BH125_0.75m	NEL-BH125_1.0	NEL-BH125_1.0m	NEL-BH125_1.5m	NEL-BH125_3.0m	NEL-BH126_0.3	NEL-BH128A_0.23	NEL-BH128A_0.45m	NEL-BH128A_1.2	NEL-BH128A_1.2m	NEL-BH135_0.2m	NEL-BH138_0.35m	NEL-BH138_1.0m	NEL-BH140_0.2m
				Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
				Lab Report Number	r EM1803435	EM1803435	EM1802327	EM1803435	EM1802327	EM1802327	EM1802348	EM1803435	EM1803435	EM1802868	EM1803435	EM1802868	EM1810875	EM1810010	EM1810010	EM1805015
			EPA Victoria IWRG	EPA Victoria IWRG		•			•	•		•	•	•					•	-
	Unit	EQL	621 Category B -	621 Category C -																
Major Ions																				T
Fluoride	mg/L	0.1	600	150	-	-	-	-	-	-	-	-	-	0.1	-	-	-	-	-	-
Fluoride (filtered)	mg/L	0.1	600	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vetals																				
Arsenic (filtered)	mg/L	0.1	2.8	0.7	-	-	-	-	< 0.1	-	-	-	-	-	-	-	-	-	-	-
Cadmium (filtered)	mg/L	0.05		0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (filtered)	mg/L	0.1		5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (filtered)	mg/L	0.1	800	200	-	-	< 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (filtered)	mg/L	0.1		1	< 0.1	< 0.1	-	< 0.1	-	7.3	1.4	<0.1	< 0.1	-	0.2	-	<0.1	< 0.1	<0.1	-
Mercury (filtered)	mg/L	0.001		0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (filtered)	mg/L	0.1		2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1
Tin (filtered)	mg/L	0.1			-	-	-	-	<0.1	< 0.1	-	-	-	-	-	-	-	-	-	-
Zinc (filtered)	mg/L	0.1	1200	300	-	-	0.6	-	4.5	2.9	-	-	-	-	-	30.3	-	-	-	-
AHa																				
Benzo(a) pyrene	μg/L	0.5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	< 0.5



				Location Code	NEL-BH141	NEL-BH143	NEL-BH150	NEL-BH155	NEL-BH159	NEL-BH163	NEL-BH166	NEL-BH172	NEL-BH174	NEL-BH178	NEL-BH179	NEL-BH181	NEL-BH184	NEL-BH185	NEL-BH191
				Depth	0.2 - 0.3	0.2 - 0.3	0.1 - 0.2	1 - 1.1	0.2 - 0.3	1 - 1.1	0.5 - 0.6	0.5 - 0.6			0.1 - 0.2	0.2 - 0.3		0.9 - 1	1 - 1.1
				Date	2/07/2018	4/07/2018	23/03/2018	31/05/2018	14/05/2018	6/07/2018	3/07/2018	29/06/2018	5/07/2018	5/07/2018	9/04/2018	16/04/2018	10/07/2018	1/06/2018	12/05/2018
				Field ID	NEL-BH141_0.2m	NEL-BH143_0.2m	NEL-BH150_0.1m	NEL-BH155_1.0m	NEL-BH159_0.2m	NEL-BH163_1.0m	NEL-BH166_0.5m	NEL-BH172_0.5m	NEL-BH174_1.5m	NEL-BH178_0.2m	NEL-BH179_0.1m	NEL-BH181-0.2m	NEL-BH184_0.2m	NEL-BH185_0.9m	NEL-BH191_1.0r
				Sample Type	Normal														
				Lab Report Numbe	r EM1811179	EM1811282	EM1806138	EM1809877	EM1809688	EM1810875	EM1811282	EM1811179	EM1812499	EM1812499	EM1806394	EM1807041	EM1812499	EM1809671	EM1809655
			EPA Victoria IWRG	EPA Victoria IWRG															
	Unit	EQL	621 Category B -	621 Category C -															
Major Ions																			
Fluoride	mg/L	0.1	600	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride (filtered)	mg/L	0.1	600	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
fetals																			
Arsenic (filtered)	mg/L	0.1	2.8	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium (filtered)	mg/L	0.05	0.8	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (filtered)	mg/L	0.1	20	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (filtered)	mg/L	0.1	800	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (filtered)	mg/L	0.1	4	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	< 0.1	< 0.1	-	-	-
Mercury (filtered)	mg/L	0.001	0.4	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (filtered)	mg/L	0.1	8	2	-	-	-	< 0.1	-	-	-	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	< 0.1
Tin (filtered)	mg/L	0.1			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (filtered)	mg/L	0.1	1200	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAHs																			
Benzo(a) pyrene	μg/L	0.5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



				Location Code	NEL-BH192	NEL-BH192	NEL-BH195	NEL-BH195	NEL-BH200	NEL-BH200	NEL-BH201	NEL-BH202	NEL-BH202	NEL-BH204	NEL-BH223	NEL-BH225	NEL-EF-BH005	NEL-EF-BH005
				Depth					0.5 - 0.6	1 - 1.1	1 - 1.1	0.2 - 0.3	0.2 - 0.3	0.5 - 0.6	0.5 - 0.6			0.2 - 0.3
				Date	18/07/2018	18/07/2018	10/07/2018	10/07/2018	6/07/2018	6/07/2018	6/07/2018	6/07/2018	6/07/2018	6/07/2018	6/07/2018	6/07/2018	1/06/2018	1/06/2018
				Field ID	NEL-BH192_0.2m	NEL-BH192_1.0m	NEL-BH195_0.5m	NEL-BH195_1.0m	NEL-BH200_0.5m	NEL-BH200_1.0m	NEL-BH201_1.0m	NEL-BH202_0.2m	QC1006	NEL-BH204_0.5m	NEL-BH223_0.5m	NEL-BH225_0.2m	NEL-EF-BH005_1.0m	NEL-EF-BH005_0.2m
				Sample Type	Normal	Field_D	Normal	Normal	Normal	Normal	Normal							
				Lab Report Number	EM1812499	EM1812499	EM1812499	EM1812499	EM1810875	EM1810875	EM1810875	EM1810875	EM1810875	EM1810875	EM1810875	EM1812499	EM1812499	EM1809671
			EPA Victoria IWRG	EPA Victoria IWRG			•	•	•	•	•	•	•	•	•	•	•	•
	Unit	EQL	621 Category B -	621 Category C -														
Major ions																		
Fluoride	mg/L	0.1	600	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride (filtered)	mg/L	0.1	600	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																		
Arsenic (filtered)	mg/L	0.1	2.8	0.7	-	-	-	-	-	-	-	-	-	-	-	< 0.1	-	-
Cadmium (filtered)	mg/L	0.05	0.8	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (filtered)	mg/L	0.1	20	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (filtered)	mg/L	0.1	800	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (filtered)	mg/L	0.1	4	1	<0.1	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	-	-	< 0.1	< 0.1	-	< 0.1	<0.1
Mercury (filtered)	mg/L	0.001	0.4	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel (filtered)	mg/L	0.1	8	2	<0.1	<0.1	-	-	-	-	-	-	-	-	-	<0.1	-	-
Tin (filtered)	mg/L	0.1			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (filtered)	mg/L	0.1	1200	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAHs																		
Benzo(a) pyrene	µg/L	0.5	4	1	-	-	-	< 0.5	-	-	-	<0.5	< 0.5	-	-	-	-	-



						1		1	1	1	1	1	1	1	1	1			1
					Location Code		NEL-EF-BH007			NEL-EF-BH017	NEL-EF-BH017	NEL-EF-BH017	NEL-EF-BH018	NEL-EF-BH019		NEL-ENV-BH009	NEL-ENV-BH022	NEL-ENV-BH022	NEL-ENV-BH023
					Depth	0.2 - 0.3	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6	0.5 - 0.6	1 - 1.1	1.5 - 1.6	0.2 - 0.3	0.2 - 0.3	1 - 1.1		0.2 - 0.3	0.5 - 0.6	0.6 - 0.7
					Date	28/05/2018	28/05/2018	4/07/2018	6/07/2018	5/06/2018	5/06/2018	5/06/2018	6/07/2018	6/07/2018	6/07/2018	1/06/2018	6/06/2018	6/06/2018	5/06/2018
					Field ID	NEL-EF-BH007_0.2m	NEL-EF-BH007_0.5m	NEL-EF-BH009_0.5m	NEL-EF-BH015_0.5	NEL-EF-BH017_0.5m	NEL-EF-BH017_1.0m	NEL-EF-BH017_1.5m	NEL-EF-BH018_0.2	NEL-EF-BH019_0.2m	NEL-EF-BH019_1.0m	NEL-ENV-BH009_1.5-1	NEL-ENV-BH022_0.2m	NEL-ENV-BH022_0.5n	n NEL-ENV-BH023_0.6-0
					Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
					Lab Report Number		EM1809654	EM1811282		EM1809881	EM1809881	EM1809881	EM1810875	EM1810875		EM1812499	EM1809854	EM1809854	EM1809540
				EPA Victoria IWRG	EPA Victoria IWRG	LW 1003034	LW 1005034	LWITOTIZOZ	LW1010073	LM 1003001	LW1003001	LIWI 100300 1	LM 10 10073	LW 10 10073	LW1010073	LW 10 12400	LW1003004	LW 1003034	LW 1005040
		Unit	EQL	621 Category B -	621 Category C -		1		1		1		1		1				
Majo																			
	oride	mg/L	0.1	600	150		-	-	-	-	-	-	-	-	-	-	-	-	0.2
Flu	oride (filtered)	mg/L	0.1	600	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Meta	8																		
An	senic (filtered)	mg/L	0.1	2.8	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ca	dmium (filtered)	mg/L	0.05	0.8	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ch	romium (III+VI) (filtered)	mg/L	0.1	20	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Co	pper (filtered)	mg/L	0.1	800	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Le	ad (filtered)	mg/L	0.1	4	1	<0.1	< 0.1	-	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	<0.1	< 0.1	<0.1
		mg/L	0.001	0.4	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nic	kel (filtered)	mg/L	0.1	8	2	-	< 0.1	< 0.1	-	-	-	-	-	-	-	-	-	-	<0.1
Tir	(filtered)	mg/L	0.1			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zir	c (filtered)	mg/L	0.1	1200	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAH																			
Be	nzo(a) pyrene	μg/L	0.5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-



				Location Code	NEL-ENV-BH025	NEL-ENV-BH028	NEL-ENV-BH030	NEL-LFB01	NEL-LFB01	NEL-LFB01	NEL-LFB02	NEL-LFB02	NEL-LFB03	NEL-LFB03	NEL-LFB03	NEL-LFB03	NEL-LFB03	NEL-LFB04	NEL-LFB04
				Depth	1 - 1.1	1.5 - 1.6	0.9 - 1		0.5 - 0.6	1 - 1.1		2 - 2.1			0.5 - 0.6	1 - 1.1	2 - 2.1		0.5 - 0.6
				Date	24/04/2018	24/04/2018	24/04/2018	10/07/2018	11/07/2018	11/07/2018	10/07/2018	11/07/2018	10/07/2018	11/07/2018	11/07/2018	11/07/2018	11/07/2018	10/07/2018	11/07/2018
				Field ID	NEL-ENV-BH025_1.0	0-1 NEL-ENV-BH028_1.	5-1 NEL-ENV-BH030_0.9-1	1 NEL-LFB01_0.1m	NEL-LFB01_0.5m	NEL-LFB01_1.0m	NEL-LFB02_0.1m	NEL-LFB02_2.0m	NEL-LFB03_0.1m	NEL-LFB03_5.0m	NEL-LFB03_0.5m	NEL-LFB03_1.0m	NEL-LFB03_2.0m	NEL-LFB04_0.1m	NEL-LFB04_0.5m
				Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
				Lab Report Number	EM1807708	EM1807708	EM1807708	EM1812499	EM1811715	EM1811715	EM1812499	EM1811715	EM1812499	EM1812499	EM1811715	EM1811715	EM1811715	EM1812499	EM1811715
			EPA Victoria IWRG	EPA Victoria IWRG			•	•	•	•	•		•	•	•	•	•	•	•
	Unit	EQL	621 Category B -	621 Category C -															
Major Ions																			
Fluoride	mg/L	0.1	600	150	0.1	< 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoride (filtered)	mg/L	0.1	600	150	0.1	< 0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals																			
Arsenic (filtered)	mg/L	0.1	2.8	0.7	-	-	-	-	-	-	-	-	-	-	-	-	< 0.1	-	-
Cadmium (filtered)	mg/L	0.05		0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (filtered)	mg/L	0.1	20	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper (filtered)	mg/L	0.1	800	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead (filtered)	mg/L	0.1	4	1	-	-	-	<0.1	< 0.1	-	< 0.1	0.1	< 0.1	-	<0.1	< 0.1	< 0.1	< 0.1	< 0.1
Mercury (filtered)	mg/L	0.001	0.4	0.1	-	-	-	-	-	-	-	-	-	< 0.0010	-	-	-	-	-
Nickel (filtered)	mg/L	0.1	8	2	-	0.1	<0.1	-	-	< 0.1	-	-	-	-	-	-	-	-	-
Tin (filtered)	mg/L	0.1			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc (filtered)	mg/L	0.1	1200	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAHs																			
Benzo(a) pyrene	μg/L	0.5	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



										1		1		
				Location Code	NEL-LFB05	NEL-LFB05	NEL-LFB05	NEL-LFB06	NEL-LFB06	NEL-LFB07	NEL-LFB08	NEL-LFB09	NEL-LFB09	NEL-LFB10
				Depth		0.5 - 0.6	1 - 1.1	0.1 - 0.2	0.5 - 0.6				0.5 - 0.6	
				Date	10/07/2018	11/07/2018	11/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018	10/07/2018
				Fleid ID	NEL-LFB05_0.1m	NEL-LFB05_0.5m	NEL-LFB05_1.0m	NEL-LFB06_0.1m	NEL-LFB06_0.5m	NEL-LFB07_0.1m	NEL-LFB08_0.1m	NEL-LFB09_0.1m	NEL-LFB09_0.5m	NEL-LFB10_0.1m
				Sample Type	Normal									
				Lab Report Number	EM1812499	EM1811715	EM1811715	EM1811715	EM1811715	EM1812499	EM1812499	EM1812499	EM1811715	EM1812499
			EPA Victoria IWRG	EPA Victoria IWRG				•	•				•	
	Unit	EQL	621 Category B -	621 Category C -										
Major Ions														
Fluoride	mg/L	0.1	600	150	-	-	-	-	-	-	-	-	-	-
Fluoride (filtered)	mg/L	0.1	600	150	-	-	-	-	-	-	-	-	-	-
Metals														
Arsenic (filtered)	mg/L	0.1	2.8	0.7	-	-	-	-	-	-	-	-	-	-
Cadmium (filtered)	mg/L	0.05	0.8	0.2	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (filtered)	mg/L	0.1	20	5	-	-	-	-	-	-	-	-	-	-
Copper (filtered)	mg/L	0.1	800	200	-	-	-	-	-	-	-	-	-	-
Lead (filtered)	mg/L	0.1	4	1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Mercury (filtered)	mg/L	0.001	0.4	0.1	-	-	-	-	-	-	-	-	-	-
Nickel (filtered)	mg/L	0.1	8	2	-	-	-	-	-	-	-	-	-	-
Tin (filtered)	mg/L	0.1			-	-	-	-	-	-	-	-	-	-
Zinc (filtered)	mg/L	0.1	1200	300	-	-	-	-	-	-	-	-	-	-
PAHs														
Benzo(a) pyrene	μg/L	0.5	4	1	-	-	-	-	-	-	-	-	-	-

GHD 3135006



NEL-BH004A

NEL-BH031 NEL-BH037 NEL-BH038

								Field ID	NEL-BH004 D/150218	NEL-BH004 S/150218	NEL-BH031/080318	NEL-BH031 / 130218	NEL-BH037 / 160418	NEL-BH038 / 140218	NEL-BH039/180418	QC1/180418	QC2 / 180418
								Date	15/02/2018	15/02/2018	8/03/2018	13/02/2018	16/04/2018	14/02/2018	18/04/2018	18/04/2018	18/04/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Field_D
									585222 / EM1803079	585222 / EM1803079	588501	584938	594417 / EM1806339	584987 / EM1802989	594938 / EM1806473	594938 / EM1806473	EM1806473
	Unit	EQL	ANZECC 2000 - Stock Watering		ANZECC 2000 FW 99%	PFAS NEMP 2018 Freshwater 99%	ANZECC 2000 Irrigation - Long-term Trigger Values	NHMRC Recreational Guidelines 2008			!	•		•		•	•
Inorganics							00-										
Colour(Pt/Co) true	PT/CO UNIT	2							-	-	<2	-	-		-		-
pH (Lab)	pH Units	0.01					6-9		8.0	8.1	7.3	8.3	7.8	8.2	6.9	6.8	6.50
Electrical conductivity (lab)	μS/cm	1					2900		8,000	2,600	-	16,000	15,000	15,000	2,700	2,500	2,400
Total Dissolved Solids (est.)	mg/L	1	5000						-	-	-	-	-	-	-	-	-
Total Dissolved Solids	mg/L	10	5000						5,700	1,700	9,500	9,900	7,600	7,100	1,300	1,200	1,420
Total Suspended Solids	mg/L	1							-	-	47	-	-	-	-	-	-
Chlorine	mg/L	0.1		0.003	0.0004					-	<0.1	-	-	-	-	-	-
Thiosulfate(S)	μg/L	1,000							-	-	<2,000	-	-	-	-	-	-
COD	mg/L	25							-	-	350	-	-	-	-	-	-
Cyanide (Total)	mg/L	0.005		0.007	0.004			0.8	-	-	< 0.005	-	-	-	-	-	-
Sodium Adsorption Ratio (filtered)	-	0.01					5		-	-	-	-	-	-	-	-	-
Sulfate as S	mg/L	5	333						-	-	170	-	-	-	-	-	-
Total Oxidised Sulfur (as S)	mg/L	10							-	-	170	-	-	-	-	-	-
Major Ions																	
Calcium	mg/L	0.5	1000						150	33	140	140	240	210	33	33	-
Calcium (filtered)	mg/L	1	1000						-	-	-	-	-	-	-	-	26
Magnesium	mg/L	0.5							350	50	470	470	390	550	63	63	-
Magnesium (filtered)	mg/L	1							-	-	-	-	-	-		-	51
Potassium	mg/L	0.5							18	<5	51	48	34	25	3.0	3.2	-
Potassium (filtered)	mg/L	1							-	-	-	-	-	-	-	-	3
Sodium	mg/L	0.5							2,100	630	3,000	3,000	2,400	2,500	440	440	-
Sodium (filtered)	mg/L	1							-	-	-	-	-	-	-	-	385
Chloride	mg/L	1					350		3,100	740	5,200	4,900	2,900	4,700	820	810	536
Sulfate	mg/L	5	1000					5000	350	87	510	520	360	510	58	58	-
Sulfate (filtered)	mg/L	1	1000					5000	-	-	-	-	-	-	-	-	51
Fluoride	mg/L	0.1	2				1	15	•	÷	<0.5	-	-	-	-	-	-
Cations Total	meq/L	0.01							-	-	-	-	-	-	-	-	22.3
Anions Total	meq/L	0.01							-	-	-	-	-	-	-	-	23.8
Ionic Balance	%	0.01							-	-	-	-	-	-	-	-	3.24
TOC																	
Total Organic Carbon	mg/L								<5	<5	-	<5	16	<5	<5	<5	3
Metals Arsenic			0.5	0.013	0.0008		0.1	0.1									
Arsenic Arsenic (filtered)	mg/L	0.001	0.5	0.013	0.0008		0.1	0.1	-	-	0.001	-	0.005	-	0.002	0.002	0.002
Arsenic (titered) Barium (filtered)	mg/L mg/L	0.001	0.5	0.013	0.0008		0.1	20	-	-	0.001		0.005	-	0.002	0.002	0.002
Beryllium		0.001					0.1	0.6		-	0.05	-	-	-		-	0.333
Beryllium Beryllium (filtered)	mg/L mg/L	0.001					0.1	0.6	-	-	<0.001	-	<0.001	-	<0.001	<0.001	<0.001
Boron		0.001	5	0.37	0.09		0.5	40		-	<0.001	-	<0.001	-	<0.001	<0.001	<0.001
	mg/L	0.05	5	0.37	0.09		0.5	40		-	0.09	-	0.16		0.08	0.08	0.08
Boron (filtered) Cadmium	mg/L mg/L		0	0.0002	0.00006		0.01	0.02		-	0.09	-	0.10	-	0.00	0.06	0.00
Cadmium (filtered)	mg/L	0.0002	0.01	0.0002	0.00006		0.01	0.02	-	-	<0.0002	-	<0.0002	-	<0.0002	<0.0002	<0.0001
Chromium (Intered) Chromium (hexavalent)	mg/L	0.0001	0.01	0.0002	0.00006		0.01	0.02	-	-	NU.UUUZ	-	NU.0002	-	<0.001	<0.001	NU.UUU1
Chromium (III+VI)	mg/L	0.001	- 1	0.001	0.00001		0.1	0.5	-	-	-	-	-	-	NU.001	NU.UU1	-
Chromium (III+VI) (filtered)	mg/L	0.001	1	0.001	0.00001		0.1			-	<0.001	l -	<0.001		<u> </u>		<0.001
Cobalt Cobalt	mg/L	0.001	1	0.001	0.00001		0.05			1	NU.UU I	1 - 1	NU.UU I	1 - 1	1 - 1	1 - 1	NU.UU I
Cobalt (filtered)	mg/L	0.001	1				0.05				<0.001	1 - 1	<0.001		<0.001	<0.001	<0.001
Copper	mg/L	0.001	1	0.0014	0.001		0.05	20			~0.001	1 - 1	NO.00 I		~0.00 I	NO.001	~0.001
Copper (filtered)	mg/L	0.001	1	0.0014	0.001		0.2	20	<u> </u>		0.019		0.003	-	<0.001	<0.001	<0.001
Iron (filtered)	mg/L	0.001		0.0014	0.001		0.2	20			0.010		0.000		~0.00 I	NO.001	NO.001
Lead	mg/L	0.001	0.1	0.0034	0.001		2	0.1	<u> </u>	-		1 1		1	H .	1	-
Lead (filtered)	mg/L	0.001	0.1	0.0034	0.001		2	0.1		-	0.001	-	< 0.001	-	<0.001	<0.001	<0.001
Manganese	mg/L	0.001	0.1	1.9	1.2		0.2	5	-	-	0.001	-	NO.001	1	NO.001	NO.001	NO.001
Manganese (filtered)	mg/L	0.003		1.9	1.2		0.2	5	-	-	0.12	-	0.18	-	0.62	0.67	0.597
Mercury	mg/L	0.001	0.002	0.0006	0.00006		0.002	0.01	-	-	0.12	-	0.10		0.02	0.07	0.007
Mercury (filtered)	mg/L	0.0001	0.002	0.0006	0.00006		0.002	0.01		-	<0.0001	-	<0.0001	-	<0.0001	<0.0001	<0.0001
Molybdenum (filtered)	mg/L	0.0001	0.15				0.01	0.5	-	-	<0.005	-	-0.0001		-0.0001	-0.0001	-0.0001
Nickel	mg/L	0.003	1	0.011	0.008		0.2	0.2	-	-	-0.000	-	-	-	-	-	-
Nickel (filtered)	mg/L	0.001	1	0.011	0.008		0.2	0.2	-	-	0.031	-	0.022	-	0.024	0.025	0.024
Selenium	mg/L	0.001	0.02	0.011	0.005		0.02	0.1	-	-	0.001		0.022	-	0.024	0.023	0.024
Selenium (filtered)	mg/L	0.001	0.02	0.011	0.005		0.02	0.1	-	-	<0.001	_	< 0.001		< 0.001	<0.001	< 0.01
Silver (filtered)	mg/L	0.005	0.02	0.00005	0.00002		0.02	1		-	<0.005	<u> </u>	-0.001	-	-0.001	-0.001	-0.01
Tin (filtered)	mg/L	0.005								-	<0.005						-
Vanadium (filtered)	mg/L	0.01					0.1			-	-	<u> </u>		-	<u> </u>	-	< 0.01
Zinc	mg/L	0.005	20	0.008	0.0024		2		-	-	-	-	-	-	-	-	-0.01
Zinc (filtered)	mg/L	0.005	20	0.008	0.0024		2			-	0.049	-	0.012		0.018	0.007	0.018
			20	0.000	0.002-					1	0.040		0.012		0.010	0.007	0.010



	Location Code	NEL-BH040	NEL-BH040A	NEL-BH044	NEL-BH059	NEL-BH060	NEL-BH062	NEL-BH062	NEL-BH062A	NEL-BH062B	NEL-BH062B
	Fleid ID	NEL-BH040 / 120218	NEL-BH040 A / 120218	NEL-BH044 / 130218	NEL-BH059 / 130218	NEL-BH060 / 140218	NEL-BH062/080318	NEL-BH062 / 140218	NEL-BH062 A / 160218	NEL-BH062B/080318	NEL-BH062 B / 140218
	Date	12/02/2018	12/02/2018	13/02/2018	13/02/2018	14/02/2018	8/03/2018	14/02/2018	16/02/2018	8/03/2018	14/02/2018
	Sample Type	Normal	Normal	Normal	Nomal	Normal	Normal	Normal	Normal	Normal	Normal
	Lab Report Number	584938	584938	584938	584938	584987 / EM1802989	588501	584987 / EM1802989	585329 / EM1802989	588501	584987 / EM1802989
ion -	NHMRC Recreational		-			-					

								Date	12/02/2018	12/02/2018	13/02/2018	13/02/2018	14/02/2018	8/03/2018	14/02/2018	16/02/2018	8/03/2018	14/02/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
								Lab Report Number	584938	584938	584938	584938	584987 / EM1802989	588501	584987 / EM1802989	585329 / EM1802989	588501	584987 / EM1802989
			ANZECC 2000 -	ANZECC 200	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational		•	•	•	•	•	•	•	•	
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008										
la consentes			Otook Watering	1 44 00 70	1 11 5570	i icanwater 5570	Long term ringger values	Odidelines 2000			_				1		_	_
Inorganics																		
Colour(Pt/Co) true	PT/CO UN								-	-	-	-	-	<2	-	-	4	-
pH (Lab)	pH Units	0.01					6-9		7.3	7.3	8.6	7.4	8.4	7.2	8.3	7.5	6.4	8.3
Electrical conductivity (lab)	μS/cm	- 1					2900		13,000	12,000	6,900	12,000	10,000	-	11,000	2,000	-	5,400
Total Dissolved Solids (est.)	mg/L	1	5000						-			-	-		_		+	
Total Dissolved Solids	mg/L	10	5000						7,000	6,100	2,700	6,000	5,200	5,500	6,400	1,300	3,300	3,000
			3000															
Total Suspended Solids	mg/L	1							-	-	-	-	-	6.2	-	-	9.5	-
Chlorine	mg/L	0.1		0.003	0.0004				-	-	-	-	-	<0.1	-	-	< 0.1	-
Thiosulfate(S)	μg/L	1,000							-	-	-	-	-	<2,000	-	-	<2,000	-
COD	mg/L	25								-	-	-	-	52	-	-	76	-
Cyanide (Total)	mg/L	0.005		0.007	0.004			0.8			-	-	-	< 0.005		-	<0.005	_
Sodium Adsorption Ratio (filtered)	mgrc	0.01		0.007	0.004		E	0.0		_	_	-		-0.000	-	-	-0.000	-
							5		•	-	-							
Sulfate as S	mg/L	5	333						-	-	-	-	-	93	-	-	45	-
Total Oxidised Sulfur (as S)	mg/L	10							-	-	-	-	-	93	-	-	45	-
Mejor lons																	1	1
Calcium	mg/L	0.5	1000						140	150	36	100	110	180	200	44	87	92
Calcium (filtered)	mg/L	1	1000										+	T		1	+	
			1000						350	310	97	270	270	270	310	45	140	150
Magnesium	mg/L	0.5							350	310	97	2/0	270	2/0	310	45	140	150
Magnesium (filtered)	mg/L	1							-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	0.5							19	12	24	23	25	15	17	3.1	7.8	7.1
Potassium (filtered)	mg/L	- 1							-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	0.5							2,200	1,900	1,400	2,000	2,100	1,800	1,900	390	840	920
Sodium (filtered)	mg/L	1							2,200	1,000	1,400	2,000	2,100	1,000	1,500	-	-	
Chloride	Illy/L						350											
	mg/L	1					350		3,900	3,600	1,500	3,300	3,100	3,200	3,200	600	1,600	1,600
Sulfate	mg/L	5	1000					5000	360	300	170	320	300	280	300	<5	130	150
Sulfate (filtered)	mg/L	1	1000					5000	-	-	-	-	-	-	-	-	-	-
Fluoride	mg/L	0.1	2				1	15	-	-	-	-	-	< 0.5	-	-	< 0.5	-
Cations Total	meg/L	0.01									_	-			_	-		
Anions Total	meg/L	0.01								_	_	-		-		-	+	_
	meq/L								-	-	-			-	-		-	
Ionic Balance	%	0.01							-	-	-	-	-	-	-	-	-	-
TOC																		
Total Organic Carbon	mg/L								<5	<5	<5	<5	<5	-	<5	<5	-	<5
Metals Arsenic																	1	1
Arsenic	mg/L	0.001	0.5	0.013	0.0008		0.1	0.1		_		_			_	0.001		
Arsenic (filtered)	mg/L	0.001	0.5	0.013	0.0008		0.1	0.1						0.002		0.001	0.008	_
			0.5	0.013	0.0006		0.1			-	-	-	-		-	-		
Barium (filtered)	mg/L	0.001						20	-	-	-	-	-	0.09	-	-	0.27	
Beryllium	mg/L	0.001					0.1	0.6	-	-	-	-	-	-	-	< 0.001	-	-
Beryllium (filtered)	mg/L	0.001					0.1	0.6	-	-	-	-	-	< 0.001	-	-	< 0.001	-
Boron	mg/L	0.05	5	0.37	0.09		0.5	40	-	-	-	-	-	-	-	0.12	-	-
Boron (filtered)	mg/L	0.05	5	0.37	0.09		0.5	40		_	_	-	-	0.05		-	0.07	
Cadmium		0.0002		0.0002			0.01	0.02		+	+	-	-	-	-	<0.0002	-	-
	mg/L							0.02	-	-	-							
Cadmium (filtered)	mg/L	0.0001	0.01	0.0002	0.00006		0.01		-	-	-	-	-	<0.0002	-	-	< 0.0002	-
Chromium (hexavalent)	mg/L	0.001		0.001	0.00001			0.5	-	-	-	-	-	-	-	-	-	-
Chromium (III+VI)	mg/L	0.001	1	0.001	0.00001		0.1		-	-	-	-	-	-	-	0.004	-	-
Chromium (III+VI) (filtered)	mg/L	0.001	1	0.001	0.00001		0.1		-	-	-	-	-	< 0.001	-	-	< 0.001	-
Cobalt	mg/L	0.001	1				0.05		-	-	-	-	-	-	-	0.002	-	-
Cobalt (filtered)	mg/L	0.001	1				0.05					-	-	0.002	-	1	< 0.001	-
Copper Copper	mg/L			0.0014	0.001		0.05	20		+	+	+	 	0.002	+ -	0.004	50.001	+
	mg/L	0.001							-	-	-	-	-		-	0.004	0.000	
Copper (filtered)	mg/L	0.001	1	0.0014	0.001		0.2	20	-	-	-	-	-	0.021	-	-	0.023	-
Iron (filtered)	mg/L	0.05					0.2		-	-	-	-		-	-	-		
Lead	mg/L	0.001	0.1	0.0034	0.001		2	0.1	-		-	-	-	-	-	0.002	4 -	-
Lead (filtered)	mg/L	0.001		0.0034	0.001		2	0.1		-	-	-		0.002		-	0.002	
Manganese	mg/L	0.005		1.9	1.2		0.2	5		+ .		+ .	-		-	0.57		-
											+	+			_			_
Manganese (filtered)	mg/L	0.001		1.9	1.2		0.2	5	-		-	-	-	0.18	-	-	0.3	-
Mercury	mg/L	0.0001		0.0006	0.00006		0.002	0.01	-	-	-	-	-	-	-	< 0.0001	-	-
Mercury (filtered)	mg/L	0.0001	0.002	0.0006	0.00006		0.002	0.01	-	-	-	-	-	< 0.0001	-	-	< 0.0001	-
Molybdenum (filtered)	mg/L	0.005	0.15				0.01	0.5		-	-	-	-	< 0.005	-	-	< 0.005	-
	mg/L	0.001		0.011	0.008		0.2	0.2	-	-	-	-	-	-	-	0.020	-	-
Nickel			1	0.011	0.008		0.2	0.2		+	-	-		0.02		0.020	0.009	
Nickel (filtered)				0.011					-		-			0.02				
Nickel (filtered)	mg/L	0.001		0.011			0.02	0.1	-	-	-	-	-	-	-	< 0.001	-	-
Nickel (filtered) Selenium	mg/L mg/L	0.001	0.02	0.011	0.005													
Nickel (filtered) Selenium Selenium (filtered)	mg/L mg/L mg/L	0.001	0.02 0.02	0.011	0.005		0.02	0.1	-	-	-	-	-	< 0.001	-	-	< 0.001	-
Nickel (filtered) Selenium	mg/L mg/L	0.001	0.02 0.02		0.005			0.1	-	-	-	-	-	< 0.005	-	-	< 0.005	-
Nickel (filtered) Selenium Selenium (filtered)	mg/L mg/L mg/L mg/L	0.001	0.02 0.02	0.011	0.005				-	-	-	-			-			
Nickel (filtered) Selenium Selenium (filtered) Silver (filtered) Tin (filtered)	mg/L mg/L mg/L mg/L mg/L	0.001 0.001 0.005 0.005	0.02 0.02	0.011	0.005		0.02					-	-	< 0.005	-	-	< 0.005	-
Nickel (filtered) Selenium Selenium (filtered) Silver (filtered) Tin (filtered) Vanadium (filtered)	mg/L mg/L mg/L mg/L mg/L mg/L	0.001 0.001 0.005 0.005 0.01	0.02	0.011 0.00005	0.005 0.00002		0.02					-	-	< 0.005	-		<0.005 <0.005	-
Nickel (filtered) Selenium Selenium (filtered) Silver (filtered) Tin (filtered)	mg/L mg/L mg/L mg/L mg/L	0.001 0.001 0.005 0.005	0.02 0.02	0.011	0.005		0.02			- - - -	-	-	-	< 0.005	-	-	< 0.005	-



	Location Code	NEL-BH064	NEL-BH070	NEL-BH071	NEL-BH072	NEL-BH076	NEL-BH076A	NEL-BH078
	Field ID	NEL-BH064 / 140218	NEL-BH070 / 120218	NEL-BH071/170418	NEL-BH072 / 120218	NEL-BH076/170418	NEL-BH076A/170418	NEL-BH078/170418
	Date	14/02/2018	12/02/2018	17/04/2018	12/02/2018	17/04/2018	17/04/2018	17/04/2018
	Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Nomal
	Lab Report Number	584987 / EM1802989	584938	594757 / EM1806408	584938	594757 / EM1806408	594757 / EM1806408	594757 / EM1806408
ın -	NHMRC Recreational							
ies	Guidelines 2008							

								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal
								Lab Report Number	584987 / EM1802989	584938	594757 / EM1806408	584938	594757 / EM1806408	594757 / EM1806408	594757 / EM1806408
			ANZECC 2000 -	ANZECC 2000	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational		•	•		•	•	•
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008							
Inorganica							55								
														†	
Colour(Pt/Co) true	PT/CO UNI	Г 2													
pH (Lab)	pH Units						6-9		8.3	7.5	6.5	7.3	6.0	6.3	7.3
		0.01					2900				9,300				
Electrical conductivity (lab)	µS/cm	1	F000				2900		14,000	11,000	9,300	9,800	5,500	4,300	8,100
Total Dissolved Solids (est.)	mg/L	1	5000						-	-	-	-	-	-	-
Total Dissolved Solids	mg/L	10	5000						5,800	5,000	5,200	4,700	2,200	2,300	4,300
Total Suspended Solids	mg/L	1							-	-	-	-	-	-	-
Chlorine	mg/L	0.1		0.003	0.0004					-	-	-	-	-	-
Thiosulfate(S)	μg/L	1,000							-	-	-	-	-	-	-
COD	mg/L	25											-	-	
Cyanide (Total)	mg/L	0.005		0.007	0.004			0.8			-			—	
Sodium Adsorption Ratio (filtered)	-	0.01		0.00.			5		-		-	-			-
Sulfate as S	mg/L	5	333				Ů,		-	-	-	-	-	-	-
		10	333												
Total Oxidised Sulfur (as S)	mg/L	10							-	-	-	-	-	-	-
Major lons															
Calcium	mg/L	0.5	1000						130	160	90	100	59	53	67
Calcium (filtered)	mg/L	1	1000						-	-	-	-	-	-	-
Magnesium	mg/L	0.5							350	300	220	230	91	87	180
Magnesium (filtered)	mg/L	1							-	-	-	-	-	-	-
Potassium	mg/L	0.5							24	19	7.3	17	14	7.6	12
Potassium (filtered)	mg/L	1									-	-			
Sodium	mg/L	0.5							2,300	1,700	1,500	1,600	880	620	1,300
Sodium (filtered)	mg/L	1							2,300	1,700	1,300	1,000	000	020	1,300
Chloride	mg/L	1					350		3.900	3.100	2.800	2.800	1.800	1.400	2.500
			1000				330	5000					1,800		
Sulfate	mg/L	5	1000					5000	390	270	180	190		110	270
Sulfate (filtered)	mg/L	1	1000					5000	-	-	-	-	-	-	-
Fluoride	mg/L	0.1	2				1	15	-	-	-	-	-		-
Cations Total	meq/L	0.01							-	-	-	-	-	-	-
Anions Total	meq/L	0.01							-	-	-	-	-	-	-
Ionic Balance	%	0.01							-	-	-	-	-	-	-
тос															
Total Organic Carbon	mg/L								<5	<5	22	<5	31	6.9	<5
Metals													-	-	
Arsenic	mg/L	0.001	0.5	0.013	0.0008		0.1	0.1	-	_					
Arsenic (filtered)	mg/L	0.001	0.5	0.013	0.0008		0.1	0.1	-	-	0.006	-	0.001	0.002	0.003
			0.5	0.013	0.0008		0.1								
Barium (filtered)	mg/L	0.001						20	-	-	-	-	-	-	-
Beryllium	mg/L	0.001					0.1	0.6	-	-	-	-	-	-	-
Beryllium (filtered)	mg/L	0.001					0.1	0.6	-	-	< 0.001	-	< 0.001	< 0.001	< 0.001
Boron	mg/L	0.05	5	0.37	0.09		0.5	40	-	-	-	-	-	-	-
Boron (filtered)	mg/L	0.05	5	0.37	0.09		0.5	40		-	0.25	-	0.12	0.12	0.13
Cadmium	mg/L	0.0002	0.01	0.0002	0.00006		0.01	0.02			-	-	-		-
Cadmium (filtered)	mg/L	0.0001	0.01	0.0002	0.00006		0.01	0.02			< 0.0002		< 0.0002	< 0.0002	<0.0002
Chromium (hexavalent)	mg/L	0.001		0.001	0.00001			0.5	-	-	-	-	-	-	-
Chromium (III+VI)	mg/L	0.001	1	0.001	0.00001		0.1		-	-	-	-			
Chromium (III+VI) Chromium (III+VI) (filtered)	mg/L	0.001	1	0.001	0.00001		0.1		-		<0.001		<0.001	<0.001	<0.001
Cobalt (III+VI) (IIIIered)		0.001	1	0.001	0.00001		0.05		-	-	NU.UU1	-	NU.UU1	<0.001	
	mg/L												1		-
Cobalt (filtered)	mg/L	0.001	1				0.05		-	-	0.004	-	0.001	<0.001	<0.001
Copper	mg/L	0.001	1	0.0014	0.001		0.2	20	-	-	-	-	-	<u> </u>	-
Copper (filtered)	mg/L	0.001	1	0.0014	0.001		0.2	20	-	-	0.051	-	0.011	0.025	0.019
Iron (filtered)	mg/L	0.05					0.2		-	-	-	-	-	-	-
Lead	mg/L	0.001	0.1	0.0034	0.001		2	0.1	-	-	-	-	-	-	-
Lead (filtered)	mg/L	0.001	0.1	0.0034	0.001		2	0.1		-	0.003		< 0.001	0.002	0.002
Manganese	mg/L	0.005		1.9	1.2		0.2	5	-	-	-	-	-0.001	- 0.002	-
Manganese (filtered)	mg/L	0.001		1.9	1.2		0.2	5	-	_	0.77	-	0.34	0.43	0.52
Mercury			0.002	0.0006	0.00006		0.002	0.01	-	-	0.11	-	0.34	0.43	3.32
	mg/L	0.0001									-0.0004	-	-0.0004	-0.0004	-0.0004
Mercury (filtered)	mg/L	0.0001	0.002	0.0006	0.00006		0.002	0.01	-	-	<0.0001	-	<0.0001	<0.0001	<0.0001
Molybdenum (filtered)	mg/L	0.005	0.15				0.01	0.5	-	-	-	-	-	-	-
			1	0.011	0.008		0.2	0.2	-	-	-	-	-	-	-
Nickel	mg/L	0.001					0.2	0.2	-	-	0.035	-	0.13	0.026	0.024
Nickel (filtered)	mg/L	0.001	1	0.011	0.008										
			1 0.02	0.011	0.008		0.02	0.1	-	-	-	-	-	-	-
Nickel (filtered)	mg/L	0.001	1					0.1 0.1	-	-	0.004	-	<0.001		<0.001
Nickel (filtered) Selenium Selenium (filtered)	mg/L mg/L mg/L	0.001 0.001 0.001	1 0.02	0.011 0.011	0.005 0.005		0.02			-				-	
Nickel (filtered) Selenium Selenium (filtered) Silver (filtered)	mg/L mg/L mg/L mg/L	0.001 0.001 0.001 0.005	1 0.02	0.011	0.005		0.02	0.1		-		-		-	
Nickel (filtered) Selenium Selenium (filtered) Silver (filtered) Tin (filtered)	mg/L mg/L mg/L mg/L mg/L	0.001 0.001 0.001 0.005 0.005	1 0.02	0.011 0.011	0.005 0.005		0.02	0.1	-	-	0.004	-	<0.001	<0.001	<0.001
Nickel (filtered) Selenium Selenium (filtered) Silver (filtered) Tin (filtered) Vanadium (filtered)	mg/L mg/L mg/L mg/L mg/L mg/L	0.001 0.001 0.001 0.005 0.005	1 0.02 0.02	0.011 0.011 0.00005	0.005 0.005 0.00002		0.02 0.02	0.1	- - - -		0.004		<0.001	<0.001	<0.001
Nickel (filtered) Selenium Selenium (filtered) Silver (filtered) Tin (filtered)	mg/L mg/L mg/L mg/L mg/L	0.001 0.001 0.001 0.005 0.005	1 0.02	0.011 0.011	0.005 0.005		0.02	0.1	-	-	0.004		<0.001	<0.001	<0.001

GHD 3135006 3

NEL-BH093

NEL-BH091



Appendix J Table 5 Summary of Groundwater Analytical Results

Location Code NEL-BH083 NEL-BH086

NEL-BH086

NEL-BH086

NEL-BH088

NEL-BH089

NEL-BH087

								Field ID	NEL-BH083 / 160418	NEL-BH086 / 120718	QC1 / 120718	QC2/120718	NEL-BH087 / 120718	NEL-BH088 / 120718	NEL-BH089 / 120718	NEL-BH091/160218	NEL-BH093 / 160418
								Date	16/04/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	16/02/2018	16/04/2018
								Sample Type	Normal				Normal		Normal	Normal	Normal
										Normal	Field_D	Field_D		Normal			
								Lab Report Number	594417 / EM1806339	607533 / EM1811208	607533	EM1811208	607533 / EM1811208	607533 / EM1811208	607533 / EM1811208	585329 / EM1803154	594417 / EM1806339
			ANZECC 2000 -				ANZECC 2000 Irrigation -	NHMRC Recreational									
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008									
Inorganics																	
Colour(Pt/Co) true	PT/CO UNIT	2								-	-	-	-	-	-	-	-
pH (Lab)	pH Units	0.01					6-9		7.1	7.7	7.5	7.29	7.8	7.7	7.4	8.2	8.0
Electrical conductivity (lab)	μS/cm	1					2900		17,000	15,000	15,000	16,000	11,000	10,000	10,000	8,100	8,700
Total Dissolved Solids (est.)	mg/L	1	5000						-	-	-					-	-
Total Dissolved Solids	mg/L	10	5000						8,600	10,000	10,000	9,480	6,300	6,100	6,800	3,900	3,800
Total Suspended Solids	mg/L	1							-	-	-		-	-	-	-	-
Chlorine	mg/L	0.1		0.003	0.0004					-	-	-	-	-			-
Thiosulfate(S)	µg/L	1,000		0.000	0.0004					-	-	-	-	-	-	-	-
COD	mg/L									-	-						
		25															
Cyanide (Total)	mg/L	0.005		0.007	0.004			0.8	-	-	-	-	-	-	-	-	-
Sodium Adsorption Ratio (filtered)	-	0.01					5		-	-	-	-	-	-	-	-	-
Sulfate as S	mg/L	5							-	-	-	-	-	-	-	-	-
Total Oxidised Sulfur (as S)	mg/L	10							-	-	-	-	-	-	-	-	-
Major Ions																	
Calcium	mg/L	0.5							180	70	70	-	65	59	34	67	43
Calcium (filtered)	mg/L	1	1000						-	-	-	62	-	-	-	-	-
Magnesium	mg/L	0.5							440	400	400	-	230	190	190	140	85
Magnesium (filtered)	mg/L	1								-	-	421	-	-	-	-	-
Potassium	mg/L	0.5							37	48	50	1 -	43	43	51	48	45
Potassium (filtered)	mg/L	1								-	-	54	-	-	-	-	1 -
Sodium	mg/L	0.5							2,800	2,600	2,600	-	2,000	1,900	1,900	2,000	1,500
Sodium (filtered)	mg/L	1							2,000	2,000	2,000	2 590	2,000	1,000	1,000	2,000	1,000
Chloride	mg/L	1					350		3,000	3,700	3,600	5,510	2,600	2,300	2,500	2,400	1,700
Sulfate			1000				330	5000				5,510					
Sulfate (filtered)	mg/L	5	1000					5000	530	610	600	-	320	120	250	61	210
	mg/L	1							-	-	-	612	-	-	-	-	-
Fluoride	mg/L	0.1	2				1	15		-	-	-	-	-	-	-	-
Cations Total	meq/L	0.01							•	-	-	152	-	-	-	-	-
Anions Total	meq/L	0.01							-	-	-	183	-	-	-	-	-
Ionic Balance	%	0.01							-	-	-	9.30	-	-	-	-	-
TOC																	
Total Organic Carbon	mg/L								19	5.1	<5	2	13	<5	27	<5	25
Metals																	
Arsenic	mg/L	0.001	0.5	0.013	0.0008		0.1	0.1	-	-	-	-	-	-	-	0.001	-
Arsenic (filtered)	mg/L	0.001	0.5	0.013	0.0008		0.1	0.1	0.003	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.003	-	< 0.001
Barium (filtered)	mg/L	0.001						20		-	-	0.033	-	-	-		-
Bervllium	mg/L	0.001					0.1	0.6			-	-	-	-		< 0.001	-
Beryllium (filtered)	mg/L	0.001					0.1	0.6	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.001		< 0.001
Boron	mg/L	0.05		0.37	0.09		0.5	40	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	0.27	-0.001
Boron (filtered)	mg/L	0.05		0.37	0.09		0.5	40	0.14	0.17	0.20	0.15	0.17	0.20	0.07	-	0.06
Cadmium	mg/L	0.0002		0.0002	0.00006		0.01	0.02	0.14			0.13		0.20	0.07		0.00
Cadmium (filtered)		0.0002		0.0002	0.00006		0.01	0.02	<0.0002	<0.0002	<0.0002	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium (hexavalent)	mg/L			0.0002	0.00006		0.01	0.02							<0.000Z		
	mg/L	0.001						0.5	-	-	-	-	-	-			-
Chromium (III+VI)	mg/L	0.001		0.001	0.00001		0.1			-	-	-	-	-	-	0.002	-
Chromium (III+VI) (filtered)	mg/L	0.001		0.001	0.00001		0.1		<0.001	< 0.001	< 0.001	<0.001	<0.001	0.001	<0.001		0.001
Cobalt	mg/L	0.001					0.05		-	-	-	-	-	-	-	0.012	-
Cobalt (filtered)	mg/L	0.001					0.05		< 0.001	0.001	0.002	0.001	0.003	0.003	0.003	-	<0.001
Copper	mg/L	0.001		0.0014	0.001		0.2	20		-	-	-	-	-	-	0.005	-
Copper (filtered)	mg/L	0.001		0.0014	0.001		0.2	20	0.001	0.006	0.086	0.005	0.012	0.022	0.013	-	0.018
Iron (filtered)	mg/L	0.05					0.2			< 0.05	< 0.05		0.07	0.05	1.4	-	-
Lead	mg/L	0.001	0.1	0.0034	0.001		2	0.1	-	-	-	-	-	-	-	< 0.001	-
Lead (filtered)	mg/L	0.001		0.0034	0.001		2	0.1	< 0.001	< 0.001	0.003	< 0.001	< 0.001	0.002	0.001	-	< 0.001
Manganese	mg/L	0.005		1.9	1.2		0.2	5	-	-	-	-	-	-		0.27	-
Manganese (filtered)	mg/L	0.001		1.9	1.2		0.2	5	0.19	0.074	0.081	0.066	0.17	0.051	0.77	-	0.022
Mercury	mg/L	0.0001	0.002	0.0006	0.00006		0.002	0.01		1		1	1			< 0.0001	-
Mercury (filtered)	mg/L	0.0001		0.0006	0.00006		0.002	0.01	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.0001
Molybdenum (filtered)	mg/L	0.0001		0.0000	0.00000		0.002	0.5	<0.0001	VU.0001	×0.0001	<0.0001	<0.0001	-0.0001	<0.0001		-0.0001
Nickel	mg/L	0.005	0.15	0.011	0.008		0.01	0.5			-	1 -	1 -	1 -	 	0.016	
Nickel (filtered)	mg/L	0.001		0.011	0.008		0.2	0.2	0.037	0.070	0.085	0.075	0.036	0.053	0.11	0.010	0.002
Nickel (tittered) Selenium		0.001		0.011	0.008		0.2	0.2	0.037	0.070	0.085	0.075	0.036	0.053	0.11	0.009	0.002
	mg/L								-		-	-	-		-	0.009	-
Selenium (filtered)	mg/L	0.001	0.02	0.011	0.005		0.02	0.1	<0.001	<0.001	< 0.001	<0.01	< 0.001	0.012	<0.001	-	<0.001
Silver (filtered)	mg/L	0.005		0.00005	0.00002			1	-	-	-	-	-	-	-	-	-
Tin (filtered)	mg/L	0.005							-	-	-	-	-	-	-	-	-
Vanadium (filtered)	mg/L	0.01					0.1			-	-	< 0.01	-	-	-	-	-
Zinc	mg/L	0.005		0.008	0.0024		2		-	-	-	-	-	-	-	0.008	-
Zinc (filtered)	mg/L	0.005	20	0.008	0.0024		2		0.035	0.007	0.14	0.008	0.032	0.063	0.041	-	0.017



Location Code	NEL-BH095	NEL-BH097	NEL-BH098	NEL-BH106	NEL-BH107	NEL-BH125	NEL-BH125	NEL-BH125
Field ID	NEL-BH095 / 130218	NEL-BH097/150218	NEL-BH098/150218	NEL-BH106 / 160418	NEL-BH107 / 160418	NEL-BH125/160218	QC1/160218	QC2/160218
Date	13/02/2018	15/02/2018	15/02/2018	16/04/2018	16/04/2018	16/02/2018	16/02/2018	16/02/2018
Sample Type	Normal	Normal	Normal	Nomal	Normal	Normal	Field_D	Field_D
Lab Report Number	584938	585222 / EM1803079	585222 / EM1803079	594417 / EM1806339	594417 / EM1806339	585329 / EM1803154	585329 / EM1803154	EM1803154

								Sample Type	Normal	Normal	Normal		Normal	Normal	Field_D	Field_D
								Lab Report Number	584938	585222 / EM1803079	585222 / EM1803079	594417 / EM1806339	594417 / EM1806339	585329 / EM1803154	585329 / EM1803154	EM1803154
			ANZECC 2000 -	ANZECC 200	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational			-					
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008								
Inorganica										T	Т	Т —			Т	т — — — — — — — — — — — — — — — — — — —
norganos											+	+	+	+	+	+
Colour(Pt/Co) true	PT/CO UNIT	2						4								
pH (Lab)	pH Units						6-9		7.7	7.7	7.2		-	7.7		7.00
		0.01										7.3	8.0		7.2	7.12
Electrical conductivity (lab)	μS/cm	1					2900		6,100	10,000	7,200	19,000	15,000	1,600	1,500	1,630
Total Dissolved Solids (est.)	mg/L	1	5000						-	-	-	-	-	-	-	-
Total Dissolved Solids	mg/L	10	5000						2,500	6,800	5,300	9,700	7,600	910	930	1,030
Total Suspended Solids	mg/L	- 1							-	-	-	-	-	-	-	-
Chlorine	mg/L	0.1		0.003	0.0004				-	-	-	-	-	-	-	-
Thiosulfate(S)	μg/L	1,000								-	-	-	-	-	-	-
COD	mg/L	25									-	-	-		-	-
Cyanide (Total)	mg/L	0.005		0.007	0.004			0.8	-		-	-	-	-	+	-
Sodium Adsorption Ratio (filtered)	- Ingr	0.01		0.007	0.004		5	0.0	-	-	-	-	-	-	_	-
Sulfate as S	mg/L	5	333				3			-	-	-	-	-	-	-
			333													
Total Oxidised Sulfur (as S)	mg/L	10							-	-	-	-	-	-	-	-
Major Ions								4								
Calcium	mg/L	0.5	1000						74	110	83	180	92	33	32	-
Calcium (filtered)	mg/L	- 1	1000						-	-	-	-	-	-	-	22
Magnesium	mg/L	0.5							72	460	230	450	310	55	50	-
Magnesium (filtered)	mg/L	- 1								-	1	-	-		-	40
Potassium	mg/L	0.5							35	55	27	42	43	3.1	3.0	-
Potassium (filtered)	mg/L	1							-		-		-	-	-	4
Sodium	mg/L	0.5							1,100	2,900	1,600	2,700	2,400	280	270	+
Sodium (filtered)	mg/L	1							1,100	2,900	1,000	2,700	2,400	200	210	206
Sodium (filtered) Chloride							350		1.500		2.800	3.600	2.900	-	-	
	mg/L	1					350	4		3,800				200	200	204
Sulfate	mg/L	5	1000					5000	270	520	420	660	440	170	170	-
Sulfate (filtered)	mg/L	1	1000					5000	-	-	-	-	-	-	-	179
Fluoride	mg/L	0.1	2				1	15	-	-	-	-	-	-	-	-
Cations Total	meq/L	0.01							-	-	-	-	-	-	-	13.4
Anions Total	meq/L	0.01								-	-	-	-	-	-	18.4
Ionic Balance	%	0.01							-			-		-	-	15.6
TOC	,-										+	+	+	+	+	+
Total Organic Carbon	mg/L								<5	<5	<5	18	21	<5	8.2	13
Metals	ingre										~ ~	+				+ "
Arsenic	mg/L	0.001	0.5	0.013	0.0008		0.1	0.1			-			0.004	0.004	
		0.001							-				0.004			
Arsenic (filtered)	mg/L	0.001	0.5	0.013	0.0008		0.1	0.1	-	-	-	<0.001	0.001	-	-	0.004
Barium (filtered)	mg/L	0.001						20	-	-	-	-	-	-	-	0.208
Beryllium	mg/L	0.001					0.1	0.6	-	-	-	-	-	< 0.001	< 0.001	-
Beryllium (filtered)	mg/L	0.001					0.1	0.6	-	-	-	< 0.001	< 0.001	-	-	< 0.001
Boron	mg/L	0.05	5	0.37	0.09		0.5	40	-	-	-	-	-	0.11	0.12	-
Boron (filtered)	mg/L	0.05	5	0.37	0.09		0.5	40	-	-	-	0.09	0.16	-	-	0.12
Cadmium	mg/L	0.0002	0.01	0.0002	0.00006		0.01	0.02				-	-	<0.0002	< 0.0002	-
Cadmium (filtered)	mg/L	0.0001	0.01	0.0002	0.00006		0.01	0.02			-	< 0.0002	< 0.0002	-	-	< 0.0001
Chromium (hexavalent)	mg/L	0.001		0.001	0.00001			0.5	-		-	-	-	+	+	-
Chromium (III+VI)	mg/L	0.001	1	0.001	0.00001		0.1	0.5	-	-	-	-	-	0.002	0.002	-
					0.00001									0.002	0.002	
Chromium (III+VI) (filtered)	mg/L	0.001	1	0.001	0.00001		0.1		-		-	<0.001	<0.001			<0.001
Cobalt	mg/L	0.001	1				0.05		-		-			0.002	0.002	
Cobalt (filtered)	mg/L	0.001	1				0.05		-	-	-	0.002	0.002	-	-	0.002
Copper	mg/L	0.001	1	0.0014	0.001		0.2	20	-	-	-	-		0.003	0.003	-
Copper (filtered)	mg/L	0.001	1	0.0014	0.001		0.2	20	-	-	-	< 0.001	0.007	-	-	< 0.001
Iron (filtered)	mg/L	0.05					0.2		-	-	1	-	-	-	-	-
Lead	mg/L	0.001	0.1	0.0034	0.001		2	0.1	-	-	1 -	-	-	< 0.001	< 0.001	-
Lead (filtered)	mg/L	0.001	0.1	0.0034	0.001		2	0.1	-	-	-	< 0.001	< 0.001	-	-	<0.001
Manganese	mg/L	0.005		1.9	1.2		0.2	5	-	-	-	-0.001	-0.001	0.87	0.92	-0.001
		0.005		1.9	1.2		0.2								0.52	0.839
Manganese (filtered)	mg/L							5	-	-	-	0.26	0.24		1	0.839
Mercury	mg/L	0.0001	0.002	0.0006	0.00006		0.002	0.01	-	<u> </u>	-	-		<0.0001	< 0.0001	
Mercury (filtered)	mg/L	0.0001	0.002	0.0006	0.00006		0.002	0.01	-	· ·	-	< 0.0001	<0.0001	-	-	<0.0001
Molybdenum (filtered)	mg/L	0.005	0.15				0.01	0.5	-	-	-	-	-	-	-	-
Nickel	mg/L	0.001	1	0.011	0.008		0.2	0.2	-	-	-	-	-	0.015	0.016	-
Nickel (filtered)	mg/L	0.001	1	0.011	0.008		0.2	0.2			-	0.003	0.007	-	-	0.014
Selenium	mg/L	0.001	0.02	0.011	0.005		0.02	0.1				-	-	< 0.001	< 0.001	-
Selenium (filtered)	mg/L	0.001	0.02	0.011	0.005		0.02	0.1	-	<u> </u>	-	< 0.001	< 0.001	-	+	< 0.01
Silver (filtered)	mg/L	0.005		0.00005	0.00002			1			+	-0.001	-0.001		+	-0.01
Tin (filtered)	mg/L	0.005		0.0000	0.00002						+			_	+	
Vanadium (filtered)							0.1		-	 	-	-	-	-	+	-
	mg/L	0.01						4	-	-	-	-	-		-	<0.01
Zinc Zinc (filtered)	mg/L mg/L	0.005	20 20	0.008	0.0024 0.0024		2		-	-	-	0.017	0.014	0.008	0.013	<0.005



[Location Code	NEL-BH128	NEL-BH140	NEL-ENV-BH006	NEL-ENV-BH008	NEL-ENV-BH009	NEL-ENV-BH009	NEL-ENV-BH014
[Fleid ID	NEL-BH128/080318	NEL-BH140/180418	NEL-ENV-BH006_27062018	NEL-ENV-BH008_08052018	NEL-ENV-BH009_27062018	NEL-ENV-BH009_19072018	ENV-BH014 / 130718
[Date	8/03/2018	18/04/2018	27/06/2018	8/05/2018	27/06/2018	19/07/2018	13/07/2018
[Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Nomal
	Lab Report Number	588501	594938	EM1810368	EM1807515	EM1810368	EM1811589	607533 / EM1811208

								Sample Type	Normal	Normal	Normal	Normal	Normal	Nomal	Normal
								Lab Report Number	588501	594938	EM1810368	EM1807515	EM1810368	EM1811589	607533 / EM1811208
			ANZECC 2000 -	ANZECC 20	100 ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational					•	•	
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008							
Inorganics															
Colour(Pt/Co) true	PT/CO UNIT	2							6.6		_	_		_	
pH (Lab)	pH Units	0.01					6-9		6.8	7.8	7.42	7.13	6.74		8.1
Electrical conductivity (lab)	uS/cm	1					2900		-	8,300	9.770	11,200	1.480		2.400
Total Dissolved Solids (est.)	mg/L	1	5000				2900			0,300	6,350	7,280	962	-	2,400
															1 300
Total Dissolved Solids	mg/L	10	5000						730	4,200	-	-	-	-	1,000
Total Suspended Solids	mg/L	1							29	-	-		-	-	-
Chlorine	mg/L	0.1		0.003	0.0004				< 0.2	-	-	-	-	-	-
Thiosulfate(S)	μg/L	1,000							<2,000	-	-	-	-	-	-
COD	mg/L	25							49	-	-	-	-	-	-
Cyanide (Total)	mg/L	0.005		0.007	0.004			0.8	< 0.005	-	-	-	-	-	-
Sodium Adsorption Ratio (filtered)	-	0.01					5		-	-	23.0	24.1	1.75	-	-
Sulfate as S	mg/L	5	333						11	-	-	-	-	-	-
Total Oxidised Sulfur (as S)	mg/L	10							11	-	-	-	-	-	-
Major lons															
Calcium	mg/L	0.5	1000						28	77	-	-	-		14
Calcium (filtered)	mg/L	1	1000						- 20	- "	78	89	48	-	
Magnesium		0.5	1000						25	170	10	99	40	-	26
Magnesium Magnesium (filtered)	mg/L								25		404	200	400		20
	mg/L	1								-	164	205	100	-	-
Potassium	mg/L	0.5							2.4	24	-	-	-	-	6.4
Potassium (filtered)	mg/L	1							-	-	23	22	<1	-	-
Sodium	mg/L	0.5							240	1,700	-	-	-	-	420
Sodium (filtered)	mg/L	- 1							-	-	1,560	1,980	93	-	-
Chloride	mg/L	- 1					350		250	2,400	3,180	3,680	209	-	260
Sulfate	mg/L	5	1000					5000	33	160	-	-	-	-	68
Sulfate (filtered)	mg/L	1	1000					5000			222	184	84	_	
Fluoride	mg/L	0.1	2				1	15	< 0.5		1.1	0.8	0.3	_	_
Cations Total	meg/L	0.01	_					10	-0.0	-	85.8	108	14.7	-	
Anions Total	meq/L	0.01									109	125	17.4		
Ionic Balance	meq/L	0.01							-	-	109	7.18	17.4 8.44	-	-
	76	0.01							-	-	12.0	7.18	8.44	-	-
тос															
Total Organic Carbon	mg/L								-	<5	-	-	-	-	9.4
Metals															
Arsenic	mg/L	0.001	0.5	0.013	0.0008		0.1	0.1	-	-	-	-	-	-	-
Arsenic (filtered)	mg/L	0.001	0.5	0.013	0.0008		0.1	0.1	0.002	< 0.001	< 0.001	< 0.001	< 0.001	-	0.002
Barium (filtered)	mg/L	0.001						20	0.71	-	0.052	0.100	0.208	-	-
Beryllium	mg/L	0.001					0.1	0.6	-	-	-	-	-	-	-
Beryllium (filtered)	mg/L	0.001					0.1	0.6	<0.001	< 0.001	< 0.001	< 0.001	<0.001	_	<0.001
Boron	mg/L	0.05	5	0.37	0.09		0.5	40				-		_	
Boron (filtered)	mg/L	0.05	5	0.37	0.09		0.5	40	<0.05	0.20	0.40	0.24	0.17		0.53
Cadmium	mg/L	0.0002		0.0002	0.00006		0.01	0.02			0.40	0.24			0.55
										-	-	-	-	-	-
Cadmium (filtered)	mg/L	0.0001	0.01	0.0002	0.00006		0.01	0.02	<0.0002	<0.0002	<0.0001	0.0002	<0.0001	-	<0.0002
Chromium (hexavalent)	mg/L	0.001		0.001	0.00001			0.5	-	< 0.001	-	-	-	-	-
Chromium (III+VI)	mg/L	0.001	1	0.001	0.00001		0.1			-	-	-	-	-	-
Chromium (III+VI) (filtered)	mg/L	0.001	1	0.001	0.00001		0.1		< 0.001	-	0.002	<0.001	< 0.001	-	< 0.001
Cobalt	mg/L	0.001	1				0.05		-	-	-	-	-	-	-
Cobalt (filtered)	mg/L	0.001	1				0.05		0.001	0.002	<0.001	0.004	0.002	-	< 0.001
Copper	mg/L	0.001	1	0.0014	0.001		0.2	20	-	-	-		-	-	-
Copper (filtered)	mg/L	0.001	1	0.0014			0.2	20	0.014	0.010	0.002	0.117	0.006		0.021
Iron (filtered)	mg/L	0.05					0.2			-	-	-	-		<0.05
Lead	mg/L	0.001	0.1	0.0034	0.001		2	0.1				1			-0.00
Lead (filtered)	mg/L	0.001	0.1	0.0034	0.001		2	0.1	0.001	<0.001	<0.001	0.015	<0.001	-	0.002
			0.1						0.001	<0.001	<0.001	0.015	<0.001	-	0.002
Manganese	mg/L	0.005		1.9	1.2		0.2	5		-		+	1	•	
Manganese (filtered)	mg/L	0.001		1.9	1.2		0.2	5	0.11	0.44	0.024	0.101	0.126	-	0.013
Mercury	mg/L	0.0001	0.002	0.0006	0.00006		0.002	0.01	-	-	-	-	-	-	-
Mercury (filtered)	mg/L	0.0001	0.002	0.0006	0.00006		0.002	0.01	<0.0001	< 0.0001	< 0.0001	<0.0001	<0.0001	-	<0.0001
Molybdenum (filtered)	mg/L	0.005	0.15				0.01	0.5	< 0.005	-	-	-	-	-	-
Nickel	mg/L	0.001	1	0.011	0.008		0.2	0.2	-	-	-	-	-	-	-
Nickel (filtered)	mg/L	0.001	1	0.011	0.008		0.2	0.2	0.016	0.023	0.001	0.075	0.008		0.062
Selenium	mg/L	0.001	0.02	0.011	0.005		0.02	0.1	-	-	-	-	-		
Selenium (filtered)	mg/L	0.001	0.02	0.011	0.005		0.02	0.1	< 0.001	0.003	< 0.01	<0.01	<0.01		0.002
Silver (filtered)	mg/L	0.001	0.02	0.00005			0.02	0.1	<0.005	0.003	~0.01	-0.01	-0.01	-	0.002
Tin (filtered)	mg/L	0.005		0.00005	0.00002			'	<0.005		-		-	-	-
Vanadium (filtered)							0.1				<0.01		<0.01		
	mg/L	0.01		0.00	0.000		0.1		-	-	<0.01	<0.01		-	-
Zinc	mg/L mg/L	0.005	20	0.008	0.0024		2		-	-	-	-	-	-	-
Zinc (filtered)		0.005			0.0024		2		0.039	0.065	0.009	0.212	0.038		0.041



								Location Code	NEL-ENV-BH022	NEL-ENV-BH024	NEL-ENV-BH024	NEL-ENV-BH024	NEL-ENV-BH024	NEL-ENV-BH025	NEL-ENV-BH032	NEL-PB01A
								Field ID	NEL-ENV-BH022	NEL-ENV-BH024_08052018	NEL-ENV-BH024_19072018	QC5000_08052018	QC6000_08052018	NEL-ENV-BH025_09052018		NEL-PB01A
								Date	27/09/2018	8/05/2018	19/07/2018	8/05/2018	8/05/2018	9/05/2018	27/06/2018	6/07/2018
								Sample Type	Normal	Normal	Normal	Field_D	Field_D	Normal	Normal	Normal
								Lab Report Number	EM1815577	EM1807515	EM1811589	EM1807515	EM1807515	EM1807669	EM1810368	607533
		Ι	ANZECC 2000 -	ANZECC 2000	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational								
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values									
Inorganics																
Colour(Pt/Co) true	PT/CO UNIT	2							-	-	-	-	-	-	-	-
pH (Lab)	pH Units	0.01					6-9		7.28	7.58	-	7.62	7.61	7.18	7.49	7.1
Electrical conductivity (lab)	μS/cm	- 1					2900		8,380	8,780	-	8,530	8,660	11,200	11,100	1,200
Total Dissolved Solids (est.)	mg/L	1	5000						5,450	5,710	-	5,540	5,630	7,280	7,220	-
Total Dissolved Solids Total Suspended Solids	mg/L	10	5000						-	-	-	-	-	-	-	790
Chlorine	mg/L	0.1		0.003	0.0004				-	-	-	-	-	-		-
Thiosulfate(S)	mg/L µg/L	1,000		0.003	0.0004				-	-	-	-	-	-	-	-
COD	mg/L	25							-	-		-	-	-	-	-
Cyanide (Total)	mg/L	0.005		0.007	0.004			0.8	-	-	-			-		-
Sodium Adsorption Ratio (filtered)	-	0.01					5		28.2	32.3	_	34.0	33.0	39.5	28.9	-
Sulfate as S	mg/L	5	333						-	-	-	-	-	-	-	-
Total Oxidised Sulfur (as S)	mg/L	10							-	-	-	-	-	-		-
Major Ions																
Calcium	mg/L	0.5	1000						-	-	-	-	-	-		41
Calcium (filtered)	mg/L	1	1000						23	35	-	34	35	24	54	-
Magnesium	mg/L	0.5							-	-	-	-	-	-	-	61
Magnesium (filtered)	mg/L	1							114	86	-	86	87	127	177	-
Potassium	mg/L	0.5							-	-	-	-	-	-	-	2.6
Potassium (filtered)	mg/L	1							55	26	-	26	26	53	16	-
Sodium Sodium (filtered)	mg/L	0.5							1,490	1,630	-	1,820	1,790	2,190	1,950	120
Chloride	mg/L mg/L	1					350		1,490 2,700	1,630	-	2,530	2,560	2,190 3,350	1,950	100
Sulfate	mg/L	5	1000				330	5000	2,700	2,480	-	2,530	2,560	3,350	3,600	100
Sulfate (filtered)	mg/L	1	1000					5000	118	158		181	164	120	313	-
Fluoride	mg/L	0.1	2				1	15	1.1	0.8		0.8	0.8	0.4	0.9	-
Cations Total	meq/L	0.01							76.7	80.4	-	88.6	87.4	108	102	-
Anions Total	meq/L	0.01							92.6	94.0	-	95.5	96.4	120	127	
Ionic Balance	%	0.01							9.34	7.82	-	3.75	4.88	5.13	10.8	-
TOC																
Total Organic Carbon	mg/L								-	-	-	-	-	-	-	21
Metals Arsenic																
	mg/L	0.001	0.5	0.013	0.0008		0.1	0.1	-	-	-	-	-	-	-	-
Arsenic (filtered)	mg/L	0.001	0.5	0.013	0.0008		0.1	0.1	0.001	0.002	-	0.002	0.002	0.002	0.001	-
Barium (filtered) Beryllium	mg/L	0.001					0.1	20	0.062	0.069	-	0.072	0.071	0.090	0.065	-
Beryllium Beryllium (filtered)	mg/L mg/L	0.001					0.1	0.6	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	-
Boron	mg/L	0.001		0.37	0.09		0.1	40	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	-
Boron (filtered)	mg/L	0.05	5	0.37	0.09		0.5	40	<0.05	1.01		1.00	1.03	0.24	0.32	-
Cadmium	mg/L	0.0002		0.0002	0.00006		0.01	0.02	-0.00	1.01	_	1.00	1.00	0.24	0.02	
Cadmium (filtered)	mg/L	0.0002		0.0002	0.00006		0.01	0.02	<0.0001	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	-
Chromium (hexavalent)	mg/L	0.001		0.001	0.00001			0.5	-	-	-	-	-	-	-	-
Chromium (III+VI)	mg/L	0.001	1	0.001	0.00001		0.1		-	-	-	-	-	-		-
Chromium (III+VI) (filtered)	mg/L	0.001	1	0.001	0.00001		0.1		< 0.001	0.001	-	< 0.001	< 0.001	0.004	< 0.001	-
Cobalt	mg/L	0.001	1				0.05			-	-	-		-		-
Cobalt (filtered)	mg/L	0.001	1				0.05		0.005	0.004	-	0.004	0.005	0.005	0.003	-
Copper	mg/L	0.001		0.0014	0.001		0.2	20			-		-			
Copper (filtered)	mg/L	0.001	1	0.0014	0.001		0.2	20	0.002	0.006	-	0.006	0.006	0.013	0.012	-
Iron (filtered)	mg/L	0.05					0.2		-	-	-	-	-	-	-	-
Lead Lead (filtered)	mg/L mg/L	0.001	0.1	0.0034	0.001		2	0.1 0.1	0.007	<0.001	-	0.001	<0.001	0.001	<0.001	-
Lead (filtered) Manganese	mg/L mg/L	0.001		1.9	1.2		0.2	U.1 5	0.007	<0.001	-	0.001	<0.001	0.001	<0.001	-
Manganese Manganese (filtered)	mg/L mg/L	0.005		1.9	1.2		0.2	5	0.473	0.066		0.064	0.065	0.067	0.039	-
Mercury	mg/L	0.0001	0.002	0.0006	0.00006		0.002	0.01	0.473	0.000	1	0.004	0.003	0.007	0.038	-
Mercury (filtered)	mg/L	0.0001		0.0006	0.00006		0.002	0.01	0.0003	<0.0001	<u> </u>	<0.0001	<0.0001	<0.0001	<0.0001	
Molybdenum (filtered)	mg/L	0.005					0.01	0.5	-	-	-	-	-	-	-	-
Nickel	mg/L	0.001	1	0.011	0.008		0.2	0.2	-	-	-	-	-	-		-
Nickel (filtered)	mg/L	0.001	1	0.011	0.008		0.2	0.2	0.014	0.151	-	0.149	0.148	0.051	0.005	-
Selenium	mg/L	0.001	0.02	0.011	0.005		0.02	0.1	-	-	-	-	-	-	-	-
Selenium (filtered)	mg/L	0.001	0.02	0.011	0.005		0.02	0.1	<0.01	<0.01	-	< 0.01	< 0.01	0.01	0.02	-
Silver (filtered)	mg/L	0.005		0.00005	0.00002			1	-	-	-	-	-	-	-	-
Tin (filtered)	mg/L	0.005								-	-	-	-	-	-	-
Vanadium (filtered)	mg/L	0.01					0.1		< 0.01	0.02	-	0.02	0.02	0.02	<0.01	-
Zinc Zinc (filtered)	mg/L mg/L	0.005		0.008	0.0024 0.0024		2		0.009	0.007	-	0.009	0.010	0.034	0.012	-
																-



								Location Code	NEL-BH004	NEL-BH004A	NEL-BH031	NEL-BH031	NEL-BH037	NEL-BH038	NEL-BH039	NEL-BH039	NEL-BH039
								Field ID	NEL-BH004 D/150218	NEL-BH004 S/150218	NEL-BH031/080318	NEL-BH031 / 130218	NEL-BH037 / 160418	NEL-BH038 / 140218	NEL-BH039/180418	QC1/180418	QC2 / 180418
								Date	15/02/2018	15/02/2018	8/03/2018	13/02/2018	16/04/2018	14/02/2018	18/04/2018	18/04/2018	18/04/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Field_D
								Lab Report Number	585222 / EM1803079	585222 / EM1803079	588501	584938	594417 / EM1806339	584987 / EM1802989	594938 / EM1806473	594938 / EM1806473	EM1806473
			ANZECC 2000 -	ANZECC 200	0 ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational									
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008									
TEXN							000			1	1	1	1	1	1	1	1
Naphthalene (BTEXN)	µg/L	5		16	2.5						<10				<10	<10	<5
		1		10	2.0				-	-		-					
BTEX (Sum of Total) - Lab Calc	μg/L								-	-	-	-	-	-	-	-	<1
Benzene	μg/L	1		950	600			10	-	-	<1	-	-	-	<1	<1	<1
Toluene	μg/L	1						8000	-	-	<1	-	-	-	<1	<1	<2
Ethylbenzene	μg/L	- 1						3000	-	-	<1	-		-	<1	<1	<2
Xylene (o)	µg/L	- 1		350	200				_	-	<1	_	_	_	<1	<1	<2
Xylene (m & p)	µg/L	2								-	<2	-		-	<2	<2	<2
								0000	-								
Xylene Total	µg/L	2						6000	-	-	<3	-		-	<3	<3	<2
RH - NEPM 2013																	
F1 (C6-C10 minus BTEXN)	μg/L	20							-	-	<20	-	-	-	<20	<20	<20
C6-C10 Fraction	µg/L	20							-	-	<20	-	-	-	<20	<20	<20
F2 (>C10-C16 minus Naphthalene)	μg/L	50							_		<50				<50	<50	<100
>C10-C16 Fraction	µg/L	50							-	-	<50	+ -	1	1	<50	<50	<100
									-	-		+ -	-	1 -			
F3 (>C16-C34 Fraction)	μg/L	100							-	-	<100	-	-	-	<100	<100	<100
F4 (>C34-C40 Fraction)	μg/L	100							-	-	<100	-	-	-	<100	<100	<100
>C10-C40 (Sum of Total)	μg/L	100								-	-	-	-	-	-	-	<100
RH - NEPM 1999	- 1									1	1			1	1	1	1
C6-C9 Fraction	µg/L	20								-	<20	-		-	<20	<20	<20
									-				-				
C10-C14 Fraction	μg/L	50							-	-	<50	-	-	-	<50	<50	<50
C15-C28 Fraction	μg/L	100							-	-	<100	-	<u> </u>	-	<100	<100	<100
C29-C36 Fraction	μg/L	50								-	<100	-	-	-	<100	<100	<50
C10-C36 (Sum of Total)	μg/L	50							-		<100	-			<100	<100	<50
trosoamines	PO	1 50								 	-100	+	1	1	-100	-100	-50
	row fl									1	-	+		1			1
N-Nitrosodiphenyl & Diphenylamine	µg/L	4							-	-	-	-	-	-	-	-	<4
nassigned																	
CO2 (Free)	mg/L	5							-	-	-	-	19	-	69	71	-
oldity & Alkalinity																	
Alkalinity (Carbonate as CaCO3)	mg/L	1				1			<10	<10	<10	<10	<10	<10	<10	<10	<1
		1															
Alkalinity (Bicarbonate as CaCO3)	mg/L								430	660	450	470	620	290	350	300	382
Alkalinity (Hydroxide as CaCO3)	mg/L	1							<10	<10	-	<10	<20	<10	<20	<20	<1
Alkalinity (total as CaCO3)	mg/L	1							430	660	-	470	620	290	350	300	382
Hardness as CaCO3 (filtered)	mg/L	1							-	-	-	-	-	-	-	-	-
utrients																	
Sulfite as S	μg/L	500									<1,000	-					
					0.00							-	-	0.57		- 0.05	
Ammonia as N	mg/L	0.01		0.9	0.32				1.0	0.16	0.02	< 0.01	0.03	0.57	0.35	0.35	0.41
Nitrate (as N)	mg/L	0.01	90	7.2	4.9				< 0.02	< 0.02	< 0.02	< 0.02	0.02	< 0.02	< 0.02	< 0.02	0.02
Nitrite (as N)	mg/L	0.01	9.1						< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.01
Nitrogen (Total Oxidised) (as N)	mg/L	0.01							< 0.05	< 0.05	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.02
Nitrogen (Total)	mg/L	0.1					5		1.3	0.5		< 0.2	0.2	0.6	0.6	1.1	0.4
Phosphorus (Total)	mg/L	0.01					0.05				1						0.36
							0.05		-			-					0.30
Reactive Phosphorus as P	µg/L	10							<50	<50	-	<50	<50	<50	<50	<50	-
Phosphate total (P)	μg/L	50							150	300	<u> </u>	80	100	650	420	760	<u> </u>
Kjeldahl Nitrogen Total	mg/L	0.1							1.3	0.5	< 0.2	< 0.2	0.2	0.6	0.6	1.1	0.4
rgenic Indicators																	
BOD	mg/L	5								-	<5	-	l .	l .		1 .	-
AHs		+ -								1	~	+	1	1	 	1	
										1		+		1	—		1
Pyrene	µg/L	1							-	-	<1	-	-	-	<1	<1	<2
Acenaphthene	μg/L	1							-	-	<1	-	-	-	<10	<10	<2
Acenaphthylene	μg/L	1							-	-	<1	-	-	-	<10	<10	<2
Anthracene	μg/L	1								-	<1	-	-	-	<1	<1	<2
Benz(a)anthracene	µg/L	1								-	<1	1 .		1 -	<1	<1	<2
Benzo(a) pyrene	µg/L	1						0.1			<1	-	1		<1	<1	<2
								0.1	-			1 -	-	· -			
Benzo[b+j]fluoranthene	μg/L	1							-	-	<1	-	-	-	<1	<1	-
Benzo(k)fluoranthene	μg/L	1							-	-	<1		-	-	<1	<1	-
Benzo(b+j+k)fluoranthene	μg/L	4								-	-	-	-	-	-	-	<4
Benzo(g,h,i)perylene	µg/L	1								-	<1			1 -	<1	<1	<2
Chrysene	µg/L	1									<1	-	-		<1	<1	<2
									-	-		1 -	-	· -			
Dibenz(a,h)anthracene	μg/L	1							-	-	<1	-	-	-	<1	<1	<2
Fluoranthene	μg/L	1							-	-	<1	-	-	-	<1	<1	<2
Fluorene	μg/L	1							-	-	<1	-	-	-	<10	<10	<2
Indeno(1,2,3-c,d)pyrene	µg/L	1								-	<1	-		1 -	<1	<1	<2
Naphthalene-PAH	µg/L	1		16	2.5					-	<1	-		-	<1	<1	-
									-	-	- 51	+	 	-			
Naphthalene	μg/L	2		16	2.5				-	-	-	-	-	-	· ·	-	<2
Phenanthrene	μg/L	1							-	-	<1	-		-	<1	<1	<2
PAHs (Sum of total) - Lab calc	μg/L	1								-	<1	1	1		<10	<10	<2



								Location Code	NEL-BH040	NEL-BH040A	NEL-BH044	NEL-BH059	NEL-BH060	NEL-BH062	NEL-BH062	NEL-BH062A	NEL-BH062B	NEL-BH062B
								Field ID	NEL-BH040 / 120218			NEL-BH059 / 130218	NEL-BH060 / 140218	NEL-BH062/080318	NEL-BH062 / 140218			
								Date	12/02/2018	12/02/2018	13/02/2018	13/02/2018	14/02/2018	8/03/2018	14/02/2018	16/02/2018	8/03/2018	14/02/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
								Lab Report Number	584938	584938	584938	584938	584987 / EM1802989	588501	584987 / EM1802989		588501	584987 / EM1802989
 			ANZECC 2000 -	ANIZECC 200	00 A NIZECO 2000	DEAC NEMD 2040	ANZECC 2000 Irrigation -	NHMRC Recreational	304930	304930	304930	304930	304907 / EM 1002909	300301	304907 / EM1002909	303329 / EM1002909	300301	304907 / EW 1002909
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%		Guidelines 2008										
BTEXN	Unit	EQL	Stock watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008		1	1	1	1	1	1	1	1	1
Naphthalene (BTEXN)	μg/L	-		16	2.5												- 10	+
BTEX (Sum of Total) - Lab Calc	μg/L μg/L	5		16	2.5				-	-	-	-	-	<10	-	<10	<10	+
Benzene	μg/L μg/L			950	600			10	-		_	-	-	-	-	-	-	+ -
Toluene	µg/L	1		950	600			8000	-	-	-	-	-	<1	-	9	<1	+
Ethylbenzene	µg/L							3000	-	-	-	-	-	- 51	-	9		
		1		350	200			3000	-	-	-	-	-	<1	-	S1	<1	-
Xylene (o)	µg/L			330	200				-	-	-	-	-		-	N 1		
Xylene (m & p)	µg/L	2						0000	-		-	-	-	<2	-	<2	<2	
Xylene Total	µg/L	2						6000	-	-	-	-	-	<3	-	<3	<3	-
TRH - NEPM 2013										_								
F1 (C6-C10 minus BTEXN)	μg/L	20							-	-	-	-	-	<20	-	<20	<20	-
C6-C10 Fraction	μg/L	20							-	-		-	-	<20	-	<20	<20	-
F2 (>C10-C16 minus Naphthalene)	μg/L	50							-	-	-	-	-	<50	-	<50	<50	-
>C10-C16 Fraction	μg/L	50							-	-		-	-	<50	-	<50	<50	-
F3 (>C16-C34 Fraction)	µg/L	100							-	-	-	-	-	<100	-	<100	<100	-
F4 (>C34-C40 Fraction)	μg/L	100							-	-	-	-	-	<100	-	<100	<100	-
>C10-C40 (Sum of Total)	μg/L	100							-	-	-	-	-	-	-	-	-	-
TRH - NEPM 1999																		
C6-C9 Fraction	μg/L	20							-	-	-	-	-	<20	-	<20	<20	-
C10-C14 Fraction	μg/L	50							-		-	-	-	<50	-	<50	<50	-
C15-C28 Fraction	μg/L	100							-	-	-	-	-	<100	-	<100	<100	-
C29-C36 Fraction	μg/L	50								-	-	-	-	<100	-	<100	<100	-
C10-C36 (Sum of Total)	μg/L	50							-	-	-	-	-	<100	-	<100	<100	-
Nitroscamines																		
N-Nitrosodiphenyl & Diphenylamine	μg/L	4							-	-	-	-	-	-	-	-	-	-
Unassigned																		
CO2 (Free)	mg/L	5							-			-		-	-	-	-	-
Acidity & Alkalinity														1				+
Alkalinity (Carbonate as CaCO3)	mg/L	1							<10	<10	65	<10	34	<10	<10	<10	<10	<10
Alkalinity (Bicarbonate as CaCO3)	mg/L	1							560	510	820	460	700	290	300	1,000	410	370
Alkalinity (Hydroxide as CaCO3)	mg/L	1							<10	<10	620 <10	<10	<10	250	<10	<10	410	s10
Alkalinity (total as CaCO3)	mg/L	1							560	510	890	460	740		300	1,000	-	370
Hardness as CaCO3 (filtered)	mg/L	1							300	310	050	400	740	<u> </u>	300	1,000	-	370
Nutrients	mgrL	+ '							-	-	-	-	-	-	-	-	-	
Sulfite as S	μg/L	500								_	+		_					
				0.0	0.00				0.57	0.41	-0.04	- 0.00	-0.04	<1,000	- 0.0	- 44	<1,000	4.5
Ammonia as N Nitrate (as N)	mg/L mg/L	0.01	90	0.9 7.2	0.32 4.9				0.10		<0.01	0.08	<0.01	2.9 0.03	2.9	1.4	1.3 0.07	1.5
			9.1	1.2	4.9				<0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02	<0.02 <0.02		<0.02 <0.02	<0.02 <0.02		
Nitrite (as N)	mg/L	0.01	9.1										<0.02	<0.02			<0.02	<0.02
Nitrogen (Total Oxidised) (as N)	mg/L	0.01							0.11	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.05
Nitrogen (Total)	mg/L	0.1					5		0.7	0.6	<0.2	<0.2	0.2	-	2.4	1.5	-	1.6
Phosphorus (Total)	mg/L	0.01					0.05		-		-	-	-	-	-	-	-	-
Reactive Phosphorus as P	µg/L	10							<50	<50	60	<50	<50	-	<50	<50	-	<50
Phosphate total (P)	μg/L	50							160	180	100	80	90		100	670	1	390
Kjeldahl Nitrogen Total	mg/L	0.1							0.6	0.6	<0.2	< 0.2	0.2	4.3	2.4	1.5	2.1	1.6
Organic Indicators	-	_											1		1		1	
BOD	mg/L	5							-	-	-	-	-	<5	-	-	<5	-
PAHs													1		1		1	
Pyrene	µg/L	1							-	-	-	-	-	<1	-	<1	<1	
Acenaphthene	μg/L	1							-	-	-	-	-	<1	-	<1	<1	-
Acenaphthylene	μg/L	1							-	-	-	-	-	<1	-	<1	<1	-
Anthracene	μg/L	1							-	-	-	-	-	<1	-	<1	<1	-
Benz(a)anthracene	μg/L	1							-	-	-	-	-	<1	-	<1	<1	-
Benzo(a) pyrene	μg/L	- 1						0.1	-	-	-	-	-	<1	-	<1	<1	-
Benzo[b+j]fluoranthene	μg/L	- 1							-	-	-	-	-	<1	-	<1	<1	-
Benzo(k)fluoranthene	μg/L	1							-	-	-	-	-	<1	-	<1	<1	-
Benzo(b+j+k)fluoranthene	μg/L	4								-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	μg/L	1							-	-	-	-	-	<1	-	<1	<1	1
Chrysene	μg/L	1							-	-	-	-	-	<1	-	<1	<1	-
Dibenz(a,h)anthracene	μg/L	1							-	-	-	-	-	<1	-	<1	<1	-
Fluoranthene	μg/L	1							-	-	-	-	-	<1	-	<1	<1	1 -
Fluorene	μg/L	1							-	-	-	-	-	<1	-	<1	<1	1 -
Indeno(1,2,3-c,d)pyrene	µg/L	- 1							-	-	-	-	-	<1	-	<1	<1	1 -
Naphthalene-PAH	µg/L	1		16	2.5					+ .	-	-	1 .	<1	-	<1	<1	+
Naphthalene	μg/L	2		16	2.5					-	-	-	-		-	1 -	1 -	+
Phenanthrene	µg/L	1								+ .	+ -	-	t .	<1	-	<1	<1	+
PAHs (Sum of total) - Lab calc	µg/L	1								+ -	+ -	-	<u> </u>	<1	-	<1	<1	
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab Calc	µg/L	2									1		1	1 :	1	-	-	+
Total OT 74 to (as par TEQ)(2610 EOIX) - Lab OBIC	PUT								-	1 -	1 -				1	1 -	1 -	

GHD 3135006



								Location Code	NEL-BH064	NEL-BH070	NEL-BH071	NEL-BH072	NEL-BH076	NEL-BH076A	NEL-BH078
								Field ID	NEL-BH064 / 140218	NEL-BH070 / 120218	NEL-BH071/170418	NEL-BH072 / 120218	NEL-BH076/170418	NEL-BH076A/170418	NEL-BH078/170418
								Date	14/02/2018	12/02/2018	17/04/2018	12/02/2018	17/04/2018	17/04/2018	17/04/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal
								Lab Report Number	584987 / EM1802989	584938	594757 / EM1806408	584938	594757 / EM1806408	594757 / EM1806408	594757 / EM1806408
			ANZECC 2000 -	ANZECC 200	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational							
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008							
BTEXN			Otoon Watering	1 11 55 76	1 44 00 70	T TCSTIWG(CT 5570	cong term ringger values	Cuidemics 2000		1	1	1	1	1	1
	com fl			40	2.5										+
Naphthalene (BTEXN)	μg/L	5		16	2.5					-	-	•	-		-
BTEX (Sum of Total) - Lab Calc	μg/L	1							-	-	-	-	-	-	-
Benzene	µg/L	1		950	600			10	-	-	-	-	-	-	-
Toluene	μg/L	1						8000	-	-	-	-	-	-	-
Ethylbenzene	μg/L	1						3000	-	-	-	-	-	-	-
Xylene (o)	μg/L	1		350	200										
Xylene (m & p)	µg/L	2													+
Xylene Total	µg/L	2						6000	-	-		-	-	· ·	<u>-</u>
	µg/L	2						8000	-	-	-	-	-	-	
TRH - NEPM 2013															
F1 (C6-C10 minus BTEXN)	μg/L	20							-	-	-	-	-	-	-
C6-C10 Fraction	μg/L	20							-	-	-	-	-	-	-
F2 (>C10-C16 minus Naphthalene)	μg/L	50								-	-	-	-	-	-
>C10-C16 Fraction	μg/L	50									-	1 -			1
F3 (>C16-C34 Fraction)	µg/L	100								-	-	l .			+
F4 (>C34-C40 Fraction)	µg/L	100								1	-	-	1	<u> </u>	+
									-	-	-	-	 	 	-
>C10-C40 (Sum of Total)	μg/L	100							-	-	-	-	-	· ·	-
TRH - NEPM 1999	1														
C6-C9 Fraction	μg/L	20							-	-	-	-	-	-	-
C10-C14 Fraction	μg/L	50							-	-	-	-	-	-	-
C15-C28 Fraction	μg/L	100							-	-	-	-	-	-	1
C29-C36 Fraction	μg/L	50													+
C10-C36 (Sum of Total)	µg/L	50							-	-	-		-		-
	pg/L	30												-	
Nitrosoamines															
N-Nitrosodiphenyl & Diphenylamine	μg/L	4								-	-	-	-	-	-
Unassigned															
CO2 (Free)	mg/L	5							-	-	410	-	630	280	49
Acidity & Alkalinity															1
Alkalinity (Carbonate as CaCO3)	mg/L	1							<10	<10	<10	<10	<10	<10	<10
Alkalinity (Bicarbonate as CaCO3)	mg/L	1							480	500	770	550	330	340	500
		1							<10	<10		<10	<20	J40 =00	<20
Alkalinity (Hydroxide as CaCO3)	mg/L										<20			<2U	
Alkalinity (total as CaCO3)	mg/L	1							490	500	770	550	330	340	500
Hardness as CaCO3 (filtered)	mg/L	1							-	-	-	-	-	-	-
Nutrients															
Sulfite as S	μg/L	500								-	-	-	-	-	-
Ammonia as N	mg/L	0.01		0.9	0.32				0.47	0.66	< 0.01	0.51	0.90	0.77	0.85
Nitrate (as N)	mg/L	0.01	90	7.2	4.9				< 0.02	<0.02	0.71	0.43	<0.02	<0.02	<0.02
Nitrite (as N)	mg/L	0.01	9.1	7.2	4.0				<0.02	<0.02	0.04	<0.02	<0.02	0.05	<0.02
			9.1							NU.UZ			NU.UZ		
Nitrogen (Total Oxidised) (as N)	mg/L	0.01							< 0.05	< 0.05	0.75	0.43	<0.05	< 0.05	<0.05
Nitrogen (Total)	mg/L	0.1					5		0.5	0.8	0.8	0.9	1.2	1.1	1.2
Phosphorus (Total)	mg/L	0.01					0.05		-	-	-	-	-	-	-
Reactive Phosphorus as P	μg/L	10							<50	<50	<50	<50	<50	<50	<50
Phosphate total (P)	μg/L	50							120	80	200	430	2,200	240	230
Kjeldahl Nitrogen Total	mg/L	0.1							0.5	0.8	<0.2	0.5	1.2	1.1	1.2
Organic Indicators	gr.	0.1							0.5	0.0	~0.2	0.3	1.2	1.1	1.2
BOD BOD	mod									1	-	1	+	 	+
500	mg/L	5							-	+ -	-	-	-	· ·	+ -
PAHs	1	1										1		l	1
Pyrene	μg/L	1								-	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Acenaphthene	μg/L	- 1							-	-	-	-	-	-	-
Acenaphthylene	μg/L	1							-	-	-	-	-	-	-
Anthracene	μg/L	- 1									-	1 -			1
Benz(a)anthracene	µg/L	1								-	-	l .			+
Benzo(a) pyrene	µg/L	1						0.1		+	+	1	1	-	+
		1						0.1		+ -	-	-	 	 	+
Benzo(b+j)fluoranthene	μg/L								-	-	-	-	-		-
Benzo(k)fluoranthene	μg/L	1								-	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Benzo(b+j+k)fluoranthene	μg/L	4							-	-	-	-	-	-	-
Benzo(g,h,i)perylene	μg/L	1							-	-	-	-	-	-	-
Chrysene	μg/L	- 1									-	1 -			1
Dibenz(a,h)anthracene	µg/L	1								-	-	l .			+
Fluoranthene	µg/L	1								+	+	1	1	-	+
		1							-	-	-	-	-	 	-
Fluorene	μg/L								-		-		-		-
Indeno(1,2,3-c,d)pyrene	μg/L	1							-	-	-	-	-	-	-
Naphthalene-PAH	µg/L	1		16	2.5				-	-	-	-	-		-
Naphthalene	μg/L	2		16	2.5				-	-	-	-	-	-	-
Phenanthrene	µg/L	1							-	-	-	-	-	-	1
PAHs (Sum of total) - Lab calc	μg/L	1									-				-
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab Calc	μg/L	2								+	+	1	1	-	+
TOWN OT THIS (AS DAT TEM)(ZEIO LOTY) - LAD ONC	PS/L	1 4								1 -				<u> </u>	1 -



								Location Code	NEL-BH083	NEL-BH086	NEL-BH086	NEL-BH086	NEL-BH087	NEL-BH088	NEL-BH089	NEL-BH091	NEL-BH093
								Field ID	NEL-BH083 / 160418	NEL-BH086 / 120718	QC1 / 120718	QC2/120718	NEL-BH087 / 120718	NEL-BH088 / 120718	NEL-BH089 / 120718	NEL-BH091/160218	NEL-BH093 / 160418
								Date	16/04/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	16/02/2018	16/04/2018
								Sample Type	Normal	Normal	Field_D	Field_D	Normal	Normal	Normal	Normal	Normal
								Lab Report Number	594417 / EM1806339	607533 / EM1811208	607533	EM1811208	607533 / EM1811208	607533 / EM1811208	607533 / EM1811208	585329 / EM1803154	594417 / EM1806339
			ANZECC 2000 -	ANZECC 2001	0 ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational									
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008									
TEXN							55			1	1	1	1	1	1	1	1
Naphthalene (BTEXN)	µg/L	5		16	2.5					<10	<10	<5	<10	<10	<10	<10	
		1		10	2.0				-						×10		
BTEX (Sum of Total) - Lab Calc	μg/L								-	-	-	<1	-	-	-	-	-
Benzene	μg/L	1		950	600			10	-	<1	<1	<1	<1	<1	53	<1	-
Toluene	μg/L	1						8000	-	<1	<1	<2	<1	<1	3	<1	-
Ethylbenzene	μg/L	1						3000	-	<1	<1	<2	<1	<1	19	<1	-
Xylene (o)	µg/L	1		350	200				-	<1	<1	<2	<1	<1	<1	<1	
Xylene (m & p)	μg/L	2								<2	<2	<2	<2	<2	24	<2	-
Xylene Total		2						6000	-								
	μg/L	2						6000	-	<3	<3	<2	<3	<3	24	<3	-
RH - NEPM 2013																	
F1 (C6-C10 minus BTEXN)	μg/L	20							-	<20	<20	<20	<20	<20	130	<20	-
C6-C10 Fraction	µg/L	20							-	<20	<20	<20	<20	<20	230	<20	-
F2 (>C10-C16 minus Naphthalene)	μg/L	50							-	<50	<50	<100	<50	<50	<50	<50	
>C10-C16 Fraction	μg/L	50								<50	<50	<100	<50	<50	<50	<50	
									-								
F3 (>C16-C34 Fraction)	μg/L	100							-	<100	<100	<100	<100	<100	<100	500	-
F4 (>C34-C40 Fraction)	μg/L	100							-	<100	<100	<100	<100	<100	<100	<100	-
>C10-C40 (Sum of Total)	μg/L	100							-	-	-	<100	-	-	-	-	-
RH - NEPM 1999	- 1									1	1				1	1	1
C6-C9 Fraction	µg/L	20								<20	<20	<20	<20	<20	190	<20	+
C10-C14 Fraction																	+
	μg/L	50								<50	<50	<50	<50	<50	<50	580	-
C15-C28 Fraction	μg/L	100							-	<100	<100	<100	<100	<100	<100	400	<u> </u>
C29-C36 Fraction	μg/L	50							-	<100	<100	<50	<100	<100	<100	<100	-
C10-C36 (Sum of Total)	μg/L	50							-	<100	<100	<50	<100	<100	<100	980	-
Itrosoamines															1	+	1
N-Nitrosodiphenyl & Diphenylamine	μg/L								_	_	-	<4	_	-			-
	µg/L	4							-	•	-	<4	-				-
Inassigned																	
CO2 (Free)	mg/L	5							68	26	40	-	25	41	41	-	11
oldity & Alkalinity																1	
Alkalinity (Carbonate as CaCO3)	mg/L	1							<10	<10	<10	<1	<10	<10	<10	<10	<10
Alkalinity (Bicarbonate as CaCO3)	mg/L	1							530	660	680	737	790	1,100	820	1,000	610
Alkalinity (Hydroxide as CaCO3)	mg/L	1							<20	<20	<20	<1	<20	<20	<20	<10	<20
Alkalinity (total as CaCO3)	mg/L	1							530	660	680	737	790	1,100	820	1,000	610
Hardness as CaCO3 (filtered)	mg/L	1							-	-		-	-	-	-	-	-
utrients																1	
Sulfite as S	μg/L	500							_			_	_			+	
Ammonia as N	mg/L	0.01		0.9	0.32				< 0.01	< 0.01	< 0.01	0.18	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
			90														
Nitrate (as N)	mg/L	0.01		7.2	4.9				<0.02	< 0.02	< 0.02	0.03	< 0.02	0.13	< 0.02	0.11	0.35
Nitrite (as N)	mg/L	0.01	9.1						<0.02	< 0.02	< 0.02	< 0.01	< 0.02	0.05	< 0.02	< 0.02	< 0.02
Nitrogen (Total Oxidised) (as N)	mg/L	0.01							< 0.05	< 0.05	< 0.05	0.03	< 0.05	0.18	< 0.05	0.11	0.35
Nitrogen (Total)	mg/L	0.1					5		1.5	< 0.2	< 0.2	0.4	< 0.2	< 0.2	0.4	< 0.2	0.7
Phosphorus (Total)	mg/L	0.01					0.05		_			0.15	_	_	_		_
Reactive Phosphorus as P	µg/L	10					0.00		<50	<50	<50	0.10	<50	<50	<50	<50	<50
Phosphate total (P)	μg/L	50							360	100	100	-	90	70	160	400	60
Kjeldahl Nitrogen Total	mg/L	0.1							1.5	<0.2	<0.2	0.4	< 0.2	<0.2	0.4	<0.2	0.3
Organic Indicators										1							1
BOD	mg/L	5							-	-	-	-	-	-	-	T -	-
AHs																1	
Pyrene	µg/L	- 1								<1	<1	<2	<1	<1	<1	<1	+ .
		1								<1	<1						+
Acenaphthene	μg/L								-			<2	<1	<1	<1	<1	1 -
Acenaphthylene	μg/L	1							-	<1	<1	<2	<1	<1	<1	<1	-
Anthracene	μg/L	1							-	<1	<1	<2	<1	<1	<1	<1	-
Benz(a)anthracene	μg/L	- 1							-	<1	<1	<2	<1	<1	<1	<1	-
Benzo(a) pyrene	μg/L	1						0.1		<1	<1	<2	<1	<1	<1	<1	
Benzo[b+j]fluoranthene	μg/L	1								<1	<1		<1	<1	<1	<1	+ .
		1								<1	<1	_	<1	<1		<1	+
Benzo(k)fluoranthene	μg/L											-	<1		<1		-
Benzo(b+j+k)fluoranthene	μg/L	4							-	-	-	<4	-	-	-	-	-
Benzo(g,h,i)perylene	μg/L	- 1							-	<1	<1	<2	<1	<1	<1	<1	-
Chrysene	μg/L	1							-	<1	<1	<2	<1	<1	<1	<1	-
Dibenz(a,h)anthracene	μg/L	1								<1	<1	<2	<1	<1	<1	<1	T .
																	+ -
Fluoranthene	μg/L	1							-	<1	<1	<2	<1	<1	<1	<1	-
Fluorene	μg/L	1							-	<1	<1	<2	<1	<1	<1	<1	-
Indeno(1,2,3-c,d)pyrene	μg/L	1							-	<1	<1	<2	<1	<1	<1	<1	-
Naphthalene-PAH	μg/L	1		16	2.5				-	<1	<1	-	<1	<1	1	<1	
Naphthalene	μg/L	2		16	2.5					t - :	+ - :	<2	+ - :		t :	+ :	
				10	2.0					-	1		-	-	-	+	+
Phenanthrene	μg/L	1							-	<1	<1	<2	<1	<1	<1	<1	-
		1								<1		<2	<1	<1	1	<1	
PAHs (Sum of total) - Lab calc Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab Calc	μg/L μg/L	2							-		<1	*~2	~ 1	~ 1		~ 1	-



								Location Code	NEL-BH095	NEL-BH097	NEL-BH098	NEL-BH106	NEL-BH107	NEL-BH125	NEL-BH125	NEL-BH125
								Fleid ID	NEL-BH095 / 130218	NEL-BH097/150218	NEL-BH098/150218	NEL-BH106 / 160418	NEL-BH107 / 160418	NEL-BH125/160218	QC1/160218	QC2/160218
								Date	13/02/2018	15/02/2018	15/02/2018	16/04/2018	16/04/2018	16/02/2018	16/02/2018	16/02/2018
								Sample Type	Normal	Normal	Normal	Nomal	Normal	Normal	Field_D	Field_D
								Lab Report Number	584938	585222 / EM1803079	585222 / EM1803079	594417 / EM1806339	594417 / EM1806339	585329 / EM1803154	585329 / EM1803154	EM1803154
						PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational								
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008							4	in the second second
BTEXN																
Naphthalene (BTEXN)	μg/L	5		16	2.5				-	-	-	-	-	<10	<10	<5
BTEX (Sum of Total) - Lab Calc	μg/L	1						10	-	-	-	-	-	-	-	<1
Benzene Toluene	µg/L	1 1		950	600			10 8000	-	-	-	-	-	<1	<1	<1
Ethylbenzene	μg/L μg/L	1						3000	-	-	-	-	-	<1	<1	<2
Xylene (o)		1		350	200			3000		-				<1	<1	<2
Xylene (m & p)	μg/L μg/L	2		350	200				-	-		-		<2	0	<2
Xylene Total	µg/L	2						6000				-		- 3	<3	<2
TRH - NEPM 2013	Par-							0000	-		-	-	-			
F1 (C6-C10 minus BTEXN)	μg/L	20							_	-	_		_	<20	<20	<20
C6-C10 Fraction	µg/L	20							-	-	-	-	-	<20	<20	<20
F2 (>C10-C16 minus Naphthalene)	μg/L	50								-	-	-	-	<50	<50	<100
>C10-C16 Fraction	μg/L	50							-	-	-	-	-	<50	<50	<100
F3 (>C16-C34 Fraction)	μg/L	100							-	-	-	-	-	<100	<100	140
F4 (>C34-C40 Fraction)	μg/L	100							-	-	-	-	-	<100	<100	<100
>C10-C40 (Sum of Total)	μg/L	100							-	-	-	-	-	-	-	140
TRH - NEPM 1999																
C6-C9 Fraction	μg/L	20									-	-	-	<20	<20	<20
C10-C14 Fraction	μg/L	50							-	-	-	-	-	<50	<50	<50
C15-C28 Fraction	μg/L	100							-	-	-	-	-	<100	<100	180
C29-C36 Fraction	μg/L	50							-	-	-	-	-	<100	<100	<50
C10-C36 (Sum of Total)	μg/L	50							-	-	-	-	-	<100	<100	180
Nitrosoamines																
N-Nitrosodiphenyl & Diphenylamine	μg/L	4							-	-	-	-	-	-	-	<4
Unassigned CO2 (Free)	_															
	mg/L	5							-	-	-	37	12	-	-	-
Acidity & Alkelinity		1							<10		<10		- 10	<10	-10	<1
Alkalinity (Carbonate as CaCO3) Alkalinity (Bicarbonate as CaCO3)	mg/L mg/L								490	<10 760	250	<10 360	<10 670	470	<10 430	448
Alkalinity (Hydroxide as CaCO3)	mg/L	1							490 <10	<10	<10	360 <20	<20	<10	430 <10	448
Alkalinity (total as CaCO3)	mg/L	1							490	760	250	360	670	470	430	448
Hardness as CaCO3 (filtered)	mg/L	- 1							-	-	-	-	-		-	- 440
Nutrients																+
Sulfite as S	μg/L	500							-	-	-	-	-		-	+
Ammonia as N	mg/L	0.01		0.9	0.32				< 0.01	0.10	< 0.01	0.32	< 0.01	0.02	0.02	0.08
Nitrate (as N)	mg/L	0.01	90	7.2	4.9				< 0.02	0.08	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.01
Nitrite (as N)	mg/L	0.01	9.1						<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.01
Nitrogen (Total Oxidised) (as N)	mg/L	0.01							< 0.05	0.08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.01
Nitrogen (Total)	mg/L	0.1					5		< 0.2	0.4	< 0.2	0.5	<0.2	0.5	0.3	<0.1
Phosphorus (Total)	mg/L	0.01					0.05		-	-	-	-	-	-	-	0.04
Reactive Phosphorus as P	μg/L	10							<50	<50	<50	<50	<50	<50	<50	-
Phosphate total (P)	μg/L	50							90	140	70	80	<50	210	180	-
Kjeldahl Nitrogen Total	mg/L	0.1							<0.2	0.3	<0.2	0.5	<0.2	0.5	0.3	<0.1
Organic Indicators BOD										-					1	
	mg/L	5							-	-	-	-	-	-	-	-
PAHs	loui	1								_	_	_	_	<1	<1	<2
Pyrene Acenaphthene	µg/L	1							-	 	-	-	-	<1	<1	<2 <2
Acenaphthylene Acenaphthylene	μg/L μg/L	1								-	-	-	-	<1	<1	<2
Anthracene	μg/L μg/L	1												<1	<1	<2
Benz(a)anthracene	µg/L	1							-		-	-	-	<1	<1	<2
Benzo(a) pyrene	µg/L	1						0.1				1 -		<1	<1	<2
Benzo[b+j]fluoranthene	µg/L	1							-	-	-	-	-	<1	<1	-
Benzo(k)fluoranthene	µg/L	1							-	-	-	-	-	<1	<1	-
Benzo(b+j+k)fluoranthene	µg/L	4							-	-	-	-	-	-	-	<4
Benzo(g,h,i)perylene	µg/L	- 1							-	-	-	-	-	<1	<1	<2
Chrysene	μg/L	- 1							-	-	-	-	-	<1	<1	<2
Dibenz(a,h)anthracene	μg/L	1							-	-	-	-	-	<1	<1	<2
Fluoranthene	μg/L	1							-	-	-	-	-	<1	<1	<2
Fluorene	μg/L	1								-	-	-	-	<1	<1	<2
Indeno(1,2,3-c,d)pyrene	μg/L	1							-	-	-	-	-	<1	<1	<2
Naphthalene-PAH	μg/L	1		16	2.5				-	-	-	-	-	<1	<1	-
Naphthalene	μg/L	2		16	2.5				-	-	-	-	-	-	-	<2
Phenanthrene	μg/L	1							-	-	-	-	-	<1	<1	<2
PAHs (Sum of total) - Lab calc	μg/L	1							-	-	-	-	-	<1	<1	<2
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab Calc	μg/L	2							-	-	-	-	-	-	-	<2



													T		
								Location Code Field ID	NEL-BH128 NEL-BH128/080318	NEL-BH140 NEL-BH140/180418	NEL-ENV-BH006	NEL-ENV-BH008 NEL-ENV-BH008_08052018	NEL-ENV-BH009 NEL-ENV-BH009_27062018	NEL-ENV-BH009 NEL-ENV-BH009_19072018	NEL-ENV-BH014 ENV-BH014 / 130718
								Date	8/03/2018	18/04/2018	27/06/2018	8/05/2018	27/06/2018	NEL-ENV-BH009_19072018 19/07/2018	13/07/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Nomal	Normal
								Lab Report Number		594938	EM1810368	EM1807515	EM1810368	EM1811589	607533 / EM1811208
			ANZECC 2000 -	ANZECC 200	0 ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational							
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008							
BTEXN															
Naphthalene (BTEXN)	µg/L	5		16	2.5				<10	-	<5	<5	<5	-	<10
BTEX (Sum of Total) - Lab Calc	μg/L	1							-	-	<1	<1	<1	-	-
Benzene	µg/L	1		950	600			10	<1	-	<1	<1	<1	-	<1
Toluene Ethylbenzene	μg/L μg/L	1 1						8000 3000	<1	-	<2 <2	<2	<2 <2	-	<1
Xylene (o)	µg/L µg/L	1		350	200			3000	<1	-	<2	<2	<2	-	<1
Xylene (m & p)	µg/L	2		330	200				<2	-	<2	<2	<2	-	<2
Xylene Total	µg/L	2						6000	<3	_	<2	<2	<2		<3
TRH - NEPM 2013															
F1 (C6-C10 minus BTEXN)	µg/L	20							<20	-	<20	<20	<20	-	<20
C6-C10 Fraction	µg/L	20							<20	-	<20	<20	<20	-	<20
F2 (>C10-C16 minus Naphthalene)	µg/L	50							<50	-	<100	<100	<100	-	<50
>C10-C16 Fraction	µg/L	50							<50	-	<100	<100	<100	-	<50
F3 (>C16-C34 Fraction)	μg/L	100							<100	-	<100	<100	<100	-	<100
F4 (>C34-C40 Fraction)	μg/L	100							<100	-	<100	<100	<100	÷	<100
>C10-C40 (Sum of Total) TRH - NEPM 1999	μg/L	100							-	-	<100	<100	<100	-	-
													.00		-00
C6-C9 Fraction C10-C14 Fraction	μg/L μg/L	20 50							<20 <50	-	<20 <50	<20 <50	<20 <50	-	<20 <50
C15-C28 Fraction	µg/L µg/L	100							<100	-	<100	<50 <100	<100	-	<100
C29-C36 Fraction	µg/L	50			110				<100	-	<50	<50	<50	-	<100
C10-C36 (Sum of Total)	µg/L	50			110				<100	1	<50	<50	<50		<100
Nitrosoamines		- 00							1100		-00	-00	-00		-100
N-Nitrosodiphenyl & Diphenylamine	μg/L	4							-	-	<4	<4	<4	-	-
Unassigned															
CO2 (Free)	mg/L	5							-	91	-	-	-	-	8.3
Acidity & Alkelinity															
Alkalinity (Carbonate as CaCO3)	mg/L	- 1							<10	<10	<1	<1	<1	-	<10
Alkalinity (Bicarbonate as CaCO3)	mg/L	1							330	660	748	855	487	-	590
Alkalinity (Hydroxide as CaCO3)	mg/L	1							-	<20	<1	<1	<1	-	<20
Alkalinity (total as CaCO3)	mg/L	- 1							-	660	748	855	487	-	590
Hardness as CaCO3 (filtered) Nutrients	mg/L	- 1							-	-	870	1,070	532	-	-
Sulfite as S	µg/L	500							<1.000	-			_	_	-
Ammonia as N	mg/L	500 0.01		0.9	0.32				1.2	0.04	0.01	0.04	<0.01	-	<0.01
Nitrate (as N)	mg/L	0.01	90	7.2	4.9				<0.02	<0.02	1.58	0.10	4.39		4.2
Nitrite (as N)	mg/L	0.01	9.1	7.2	4.0				<0.02	<0.02	<0.01	<0.01	0.02	-	0.03
Nitrogen (Total Oxidised) (as N)	mg/L	0.01							-	< 0.05	1.58	0.10	4.41	-	4.2
Nitrogen (Total)	mg/L	0.1					5		-	< 0.2	1.8	0.1	5.0	-	4.7
Phosphorus (Total)	mg/L	0.01					0.05		-	-	0.10	0.09	0.04	-	-
Reactive Phosphorus as P	μg/L	10							-	<50	20	20	<10	-	<50
Phosphate total (P)	μg/L	50							-	110	-	-	-	-	<50
Kjeldahl Nitrogen Total	mg/L	0.1							1.7	<0.2	0.2	<0.1	0.6	-	0.5
Organic Indicators															
BOD	mg/L	5							<5	-	-	-	-	-	-
PAHs		1							<1	+	-0	-0	-0	1	<1
Pyrene Acenaphthene	μg/L μg/L	1 1							<1	-	<2 <2	<2 <2	<2 <2	-	<1
Acenaphthylene	µg/L	1							<1	-	<2	<2	<2	-	<1
Anthracene	µg/L	1							<1	-	<2	<2	<2	-	<1
Benz(a)anthracene	µg/L	1							<1	-	<2	<2	<2	-	<1
Benzo(a) pyrene	µg/L	1						0.1	<1	-	<2	<2	<2	-	<1
Benzo[b+j]fluoranthene	μg/L	- 1							<1	-	-	-	-	-	<1
Benzo(k)fluoranthene	μg/L	- 1							<1	-	-	-	-	-	<1
Benzo(b+j+k)fluoranthene	μg/L	4							-	-	<4	<4	<4	-	-
Benzo(g,h,i)perylene	μg/L	1							<1	-	<2	<2	<2	-	<1
Chrysene	μg/L	- 1							<1	-	<2	<2	<2	÷	<1
Dibenz(a,h)anthracene	µg/L	1							<1	-	<2	<2	<2	-	<1
Fluoranthene	µg/L	1							<1	-	<2	<2	<2	-	<1
Fluorene	µg/L	1 1							<1	-	<2	<2	<2	-	<1
Indeno(1,2,3-c,d)pyrene	µg/L	1 1		16	2.5				<1	-	<2	<2	<2	-	<1
Naphthalene-PAH Naphthalene	μg/L μg/L	1 2		16	2.5				<1	-		<2	<2	-	<1
Phenanthrene	µg/L µg/L	1		10	2.5				<1	1	<2	<2	<2	1 :	<1
PAHs (Sum of total) - Lab calc	µg/L	1							<1	-	<2	<2	<2	+ -	<1
Total 8 PAHs (as BaP TEQ)(zero LOR) - Lab Calc	µg/L	2								-	<2	<2	<2	-	-
	ro	-								1	~	~	1	1	1



								Location Code	NEL-ENV-BH022	NEL-ENV-BH024	NEL-ENV-BH024	NEL-ENV-BH024	NEL-ENV-BH024	NEL-ENV-BH025	NEL-ENV-BH032	NEL-PB01A
								Fleid ID	NEL-ENV-BH022	NEL-ENV-BH024_08052018		QC5000_08052018	QC6000_08052018	NEL-ENV-BH025_09052018	NEL-ENV-BH032_27062018	
								Date D	27/09/2018	NEL-ENV-BH024_08052018 8/05/2018	NEL-ENV-BH024_19072018 19/07/2018	8/05/2018	8/05/2018	9/05/2018	27/06/2018	6/07/2018
								Sample Type	27/09/2018 Normal	8/05/2018 Normal	19/07/2018 Normal	8/05/2018 Field_D	8/05/2018 Field_D	9/05/2018 Normal	27/06/2018 Normal	Normal
								Lab Report Number	EM1815577	EM1807515	EM1811589	EM1807515	EM1807515	EM1807669	EM1810368	607533
	1	-	ANZECC 2000 -	ANIZECO 2007	ANIZECC 2000	DEAC NEMP 2040	ANZECC 2000 Irrigation -	NHMRC Recreational	EW10133//	EW 1007515	EW1811309	EW 1007515	EW100/515	EM100/009	EWI 16 10 300	007533
	Unit	EQL			FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008								
TEXN	Olik	LQL	Stock watering	FW 95%	F VV 9976	riesriwater 99%	Long-term ringger values	Guidelines 2006			1	i .	1	1	1	1
Naphthalene (BTEXN)	μg/L	- 5		16	2.5					<5		<5	<5	<5	<5	
BTEX (Sum of Total) - Lab Calc	µg/L	1		10	2.5				37,200	<1	-	<1	<1	<1	<1	
Benzene	µg/L	1		950	600			10	6,060	<1	-	<1	<1	<1	<1	-
Toluene	µg/L	1		830	000			8000	19,400	<2	-	<2	<2	<2	<2	-
Ethylbenzene	µg/L	1						3000	1,220	<2	-	<2	<2	<2	<2	
Xylene (o)	µg/L	1		350	200			3000	3,320	<2		<2	<2	<2	<2	-
Xylene (m & p)	µg/L	2		330	200				7,180	<2	-	<2	<2	<2	<2	
Xylene Total		2						6000	10,500	<2		<2	<2	<2	<2	
RH - NEPM 2013	µg/L							0000	10,000	~2	-	~~	*2	~		
F1 (C6-C10 minus BTEXN)	land	20							4.420	<20	-	<20	<20	360	<20	
C6-C10 Fraction	μg/L μg/L	20							41,600	<20	-	<20	<20	360	<20	-
F2 (>C10-C16 minus Naphthalene)	µg/L	50							1.240	1.060	-	1.230	1,240	<100	<100	
>C10-C16 Fraction	µg/L	50							1,410	1,060	-	1,230	1,240	<100	<100	
F3 (>C16-C34 Fraction)	µg/L	100							180	180	-	200	210	<100	<100	+
F4 (>C34-C40 Fraction)		100							<100	<100	-	<100	<100		<100	+
>C10-C40 (Sum of Total)	µg/L µg/L	100							1,590	1,240	-	1,430	1,450	<100 <100	<100	+
>C10-C40 (Sum of Fotal) RH - NEPM 1999	µg/L	100							1,590	1,240	· -	1,430	1,430	×100	×100	+
	houl	20							42.900	<20		-20	<20	290	-20	-
C6-C9 Fraction C10-C14 Fraction	µg/L	20							42,800	<20	-	<20		380	<20	-
C10-C14 F18010N	µg/L	50							3,090	1,000	-	1,170	1,180	<50	<50 <100	-
C15-C28 Fraction	μg/L	100							230	270	-	290	300	<100		-
C29-C36 Fraction	μg/L	50							<50	<50	-	<50	<50	<50	<50	-
C10-C36 (Sum of Total)	μg/L	50							3,320	1,270	-	1,460	1,480	<50	<50	-
Itroscamines																
N-Nitrosodiphenyl & Diphenylamine	μg/L	4							<4	<4	-	<4	<4	<4	<4	-
nassigned									-							
CO2 (Free)	mg/L	5							-	-	-	-	-	-	-	-
oldity & Alkalinity																
Alkalinity (Carbonate as CaCO3)	mg/L	- 1							<1	<1	-	<1	<1	<1	<1	<10
Alkalinity (Bicarbonate as CaCO3)	mg/L	- 1							698	1,040	-	1,020	1,040	1,150	962	550
Alkalinity (Hydroxide as CaCO3)	mg/L	- 1							<1	<1	-	<1	<1	<1	<1	<20
Alkalinity (total as CaCO3)	mg/L	- 1							698	1,040	-	1,020	1,040	1,150	962	550
Hardness as CaCO3 (filtered)	mg/L	- 1							527	442	-	439	446	583	864	-
lutrients																
Sulfite as S	μg/L	500							-	-	-	-	-	-	-	-
Ammonia as N	mg/L	0.01		0.9	0.32				0.03	0.05	-	< 0.01	<0.01	0.11	0.03	2.7
Nitrate (as N)	mg/L	0.01		7.2	4.9				0.03	0.30	-	0.27	0.28	0.78	2.56	< 0.02
Nitrite (as N)	mg/L	0.01							<0.01	0.01	-	0.03	0.02	0.01	0.06	<0.02
Nitrogen (Total Oxidised) (as N)	mg/L	0.01							0.03	0.31	-	0.30	0.30	0.79	2.62	< 0.05
Nitrogen (Total)	mg/L	0.1					5		0.7	0.6	-	0.3	0.7	1.4	2.9	4.7
Phosphorus (Total)	mg/L	0.01					0.05		0.23	0.08	-	0.08	0.11	0.18	0.07	-
Reactive Phosphorus as P	μg/L	10							< 0.01	<10	-	<10	<10	20	<10	<50
Phosphate total (P)	μg/L	50							-	-	-	-	-	-	-	120
Kjeldahl Nitrogen Total	mg/L	0.1							0.7	0.3	-	<0.1	0.4	0.6	0.3	4.7
rganic indicators																
BOD	mg/L	5							-	-	-	-	-	-	-	-
\Hs																
Pyrene	μg/L	- 1							<2	<2	-	<2	<2	<2	<2	-
Acenaphthene	μg/L	- 1							<2	<2	-	<2	<2	<2	<2	-
Acenaphthylene	μg/L	- 1							<2	<2	-	<2	<2	<2	<2	-
Anthracene	μg/L	- 1							<2	<2	-	<2	<2	<2	<2	-
Benz(a)anthracene	μg/L	- 1							<2	<2	-	<2	<2	<2	<2	-
Benzo(a) pyrene	μg/L	- 1						0.1	<2	<2	-	<2	<2	<2	<2	-
Benzo[b+j]fluoranthene	μg/L	1							-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	μg/L	1							-	-	-	-	-	-	-	-
Benzo(b+j+k)fluoranthene	μg/L	4							<4	<4	-	<4	<4	<4	<4	-
Benzo(g,h,i)perylene	μg/L	1							<2	<2	-	<2	<2	<2	<2	-
Chrysene	µg/L	1							<2	<2	-	<2	<2	<2	<2	1
Dibenz(a.h)anthracene	μg/L	1							<2	<2	-	<2	<2	<2	<2	1
Fluoranthene	µg/L	1							<2	<2	_	<2	<2	<2	<2	
Fluorene	µg/L	1							<2	<2	1	<2	<2	<2	<2	+
Indeno(1,2,3-c,d)pyrene	µg/L	1							<2	<2		<2	<2	<2	<2	-
Naphthalene-PAH	µg/L	1		16	2.5				-	-	1 -	-	-		-	1
Naphthalene Naphthalene	µg/L	2		16	2.5				166	<2	1 - 1	<2	<2	<2	<2	-
	HA.F			10	2.0	-			100	2	1	<2	<2	<2	<2	+
	uo/I															
Phenanthrene PAHs (Sum of total) - Lab calc	μg/L μg/L	1							122	<2	-	<2	<2	<2	<2	



								Location Code	NEL-BH004	NEL-BH004A	NEL-BH031	NEL-BH031	NEL-BH037	NEL-BH038	NEL-BH039	NEL-BH039	NEL-BH039
								Field ID	NEL-BH004 D/150218	NEL-BH004 S/150218	NEL-BH031/080318	NEL-BH031 / 130218	NEL-BH037 / 160418	NEL-BH038 / 140218	NEL-BH039/180418	QC1/180418	QC2 / 180418
								Date	15/02/2018	15/02/2018	8/03/2018	13/02/2018	16/04/2018	14/02/2018	18/04/2018	18/04/2018	18/04/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Field_D
								Lab Report Number	585222 / EM1803079	585222 / EM1803079	588501	584938	594417 / EM1806339	584987 / EM1802989	594938 / EM1806473	594938 / EM1806473	EM1806473
			ANZECC 2000 -	ANZECC 2000	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational									
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008									
Phenois												1	1	1	1	1	1
3,4-Methylphenol (m,p-cresol)	µg/L	4							-	-	<6	-			<6	<6	<4
2,3,4,6-Tetrachlorophenol	μg/L	10		20	10						<10	-			<10	<10	-
2,4,5-trichlorophenol	μg/L	2							-	-	<10	-	-	-	<10	<10	<2
2,4,6-trichlorophenol	μg/L	2		20	3			200	-	-	<10	-	-	-	<10	<10	<2
2,4-dichlorophenol	μg/L	2		160	120			2000	-	-	<3	-	-	-	<3	<3	<2
2,4-dimethylphenol	μg/L	2							-	-	<3	-	-	-	<3	<3	<2
2,4-dinitrophenol	μg/L	30		45	13				-	-	<30	-	-	-	<30	<30	-
2,6-dichlorophenol	μg/L	2							-	-	<3	-	-	-	<3	<3	<2
2-chlorophenol	μg/L	2		490	340			3000	-	-	<3	-	-	-	<3	<3	<2
2-methylnaphthalene	μg/L	2							-	-	<5	-	-	-	<5	<5	<2
2-methylphenol	μg/L	2							-	-	<3	-	-	-	<3	<3	<2
2-nitrophenol	μg/L	2							-	-	<10	-	-	-	<10	<10	<2
3-methylcholanthrene	μg/L	2							-	-	<5	-	-	-	<5	<5	<2
4,6-Dinitro-o-cyclohexyl phenol	μg/L	100							-	-	<100	-	-	-	<100	<100	-
4-chloro-3-methylphenol	μg/L	2							-	-	<10	-	-	-	<10	<10	<2
4-nitrophenol	μg/L	30								-	<30	-	-	-	<30	<30	-
Acetophenone	μg/L	2							-	-	<5	-	-	-	<5	<5	<2
Pentachlorophenol	μg/L	4		10	3.6			100	-	-	<10	-	-	-	<10	<10	<4
Phenol	μg/L	2		320	85				-	-	<3	-	-	-	<3	<3	<2
tetrachlorophenols	μg/L	30							-	-	<30	-	-	-	<30	<30	-
Phenois (Total Halogenated)	μg/L	10							-	-	<10	-	-	-	<10	<10	-
Phenois (Total Non Halogenated)	μg/L	100							-	-	<100	-	-	-	<100	<100	-
VOCs																	
1,1-dichloroethane	μg/L	1							-	-	-	-	-	-	<1	<1	<5
1,2,3-trichlorobenzene	μg/L	1		10	3				-	-	<1	-	-	-	<5	<5	<5
1,2,3-trichloropropane	μg/L	1							-	-	-	-	-	-	<1	<1	<5
1,2-dibromoethane	μg/L	1						10	-	-	-	-	-	-	<1	<1	<5
1,3-dichlorobenzene	μg/L	1		260	160				-	-	<1	-	-	-	<1	<1	<2
2-butanone (MEK)	μg/L	1							-	-	-	-	-	-	<1	<1	<50
2-hexanone (MBK)	μg/L	50							-	-	-	-	-	-	-	-	<50
4-methyl-2-pentanone (MIBK)	μg/L	1							-	-	-	-	-	-	<1	<1	<50
Acetone	μg/L	1							-	-	-	-	-	-	<1	<1	-
Allyl chloride	μg/L	1							-	-	-	-	-	-	<1	<1	-
Bromodichloromethane	μg/L	1							-	-	-	-	-	-	<1	<1	<5
Bromoform	μg/L	- 1							-	-	-	-	-	-	<1	<1	<5
Carbon disulfide	μg/L	- 1							-	-	-	-	-	-	<1	<1	<5
Chlorodibromomethane	μg/L	1							-	-	-	-	-	-	<1	<1	<5
Chloroethane	μg/L	1							-	-	-	-	-	-	<1	<1	<50
cis-1,3-dichloropropene	μg/L	1							-	-	-	-	-	-	<1	<1	<5
cis-1,4-Dichloro-2-butene	µg/L	5							-	-	-	-	-	-	1 -	-	<5
Dibromomethane	µg/L	1							-	-	-	-	-	-	<1	<1	<5
lodomethane n-butylbenzene	μg/L	1 5							-	-	-	-	-	-	<1	<1	<5
	µg/L								-	-	-	-	-	-	-	-	
n-propylbenzene Pentachloroethane	µg/L	5							-	-	-	-	-	-	-	-	<5
	µg/L µg/L	5							-	-	-	-	-	-	-	-	<5
p-isopropyltoluene									-	-	-	-	-	<u> </u>	-	-	
sec-butylbenzene Trichloroethene (TCE)	μg/L	5							-	-	-	-		-		-	<5
	µg/L	1							-	-	-	-	-	-	<1	<1	<5
tert-butylbenzene	µg/L	5						500	-	-	-	-	-	_			<5
Tetrachloroethene	μg/L	1						500	-	-	-	-	-	-	<1	<1	<5
trans-1,2-dichloroethene	µg/L													-			<5
trans-1,3-dichloropropene	µg/L	1							-	-	-	-	-	-	<1	<1	<5
trans-1,4-Dichloro-2-butene	µg/L	5							-	-	-	-	-	-	<1	<1	<5
Trichlorofluoromethane Vinyl acetate	µg/L	1							-	-	-	-	-		<1		<50
viriyi acetate	μg/L	50							-	-	-	-	-	-		-	<50



								Location Code	NEL-BH040	NEL-BH040A	NEL-BH044	NEL-BH059	NEL-BH060	NEL-BH062	NEL-BH062	NEL-BH062A	NEL-BH062B	NEL-BH062B
								Fleid ID	NEL-BH040 / 120218			NEL-BH059 / 130218	NEL-BH060 / 140218	NEL-BH062/080318	NEL-BH062 / 140218	NEL-BH062 A / 160218		NEL-BH062 B / 140218
								Date	12/02/2018	12/02/2018	13/02/2018	13/02/2018	14/02/2018	8/03/2018	14/02/2018	16/02/2018	8/03/2018	14/02/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
								Lab Report Number	584938	584938	584938	584938	584987 / EM1802989	588501	584987 / EM1802989	585329 / EM1802989	588501	584987 / EM1802989
			ANZECC 2000 -	ANZECC 200	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational										•
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008										
Phenois			_				-			1			1	1			1	
3,4-Methylphenol (m,p-cresol)	μg/L	4							-	-	-	-	-	<6	-	<6	<6	-
2,3,4,6-Tetrachlorophenol	µg/L	10		20	10				-	-	-	-	-	<10	-	<10	<10	-
2,4,5-trichlorophenol	μg/L	2							-	-	-	-	-	<10	-	<10	<10	-
2,4,6-trichlorophenol	μg/L	2		20	3			200	-	-	-	-	-	<10	-	<10	<10	-
2,4-dichlorophenol	μg/L	2		160	120			2000	-	-	-	-	-	<3	-	<3	<3	-
2,4-dimethylphenol	μg/L	2							-	-	-	-	-	<3	-	<3	<3	-
2,4-dinitrophenol	μg/L	30		45	13				-	-	-	-	-	<30	-	<30	<30	-
2,6-dichlorophenol	μg/L	2							-	-	-	-	-	<3	-	<3	<3	-
2-chlorophenol	μg/L	2		490	340			3000	-	-	-	-	-	<3	-	<3	<3	-
2-methylnaphthalene	μg/L	2							-	-	-	-	-	<5	-	<5	<5	-
2-methylphenol	μg/L	2							-	-	-	-	-	<3	-	<3	<3	-
2-nitrophenol	μg/L	2							-	-	-	-	-	<10	-	<10	<10	-
3-methylcholanthrene	μg/L	2							-	-	-	-	-	\$	-	<5	<5	-
4,6-Dinitro-o-cyclohexyl phenol	μg/L	100							-	-	-	-	-	<100	-	<100	<100	-
4-chloro-3-methylphenol	μg/L	2							-	-	-	-	-	<10	-	<10	<10	-
4-nitrophenol	μg/L	30							-	-	-	-	-	<30	-	<30	<30	-
Acetophenone	μg/L	2							-	-	-	-	-	<5	-	<5	<5	-
Pentachlorophenol	µg/L	4		10	3.6			100	-	-	-	-	÷	<10	-	<10	<10	-
Phenol	μg/L	2		320	85				-	-	-	-	-	<3	-	<3	<3	-
tetrachlorophenols	μg/L	30							-	-	-	-	-	<30	-	<30	<30	-
Phenols (Total Halogenated)	μg/L	10							-	-	-	-	-	<10	-	<10	<10	-
Phenols (Total Non Halogenated)	μg/L	100							-	-	-	-	-	<100	-	<100	<100	-
VOCs																		
1,1-dichloroethane	μg/L	1							-	-	-	-	-	-	-	<1	-	-
1,2,3-trichlorobenzene	μg/L	1		10	3				-	-	-	-	-	<1	-	<5	<1	-
1,2,3-trichloropropane	μg/L	1							-	-	-	-	-	-	-	<1	-	-
1,2-dibromoethane	μg/L	1						10	-	-	-	-	-	-	-	<1	-	-
1,3-dichlorobenzene	μg/L	1		260	160				-		-	-	-	<1	-	<1	<1	-
2-butanone (MEK)	μg/L	1							-	-	-	-	-	-	-	<1	-	-
2-hexanone (MBK)	μg/L	50								-		-	-	-	-	<1	-	-
4-methyl-2-pentanone (MIBK) Acetone	μg/L	1							-	-	-	-	-	-	-		-	-
Allyl chloride	µg/L	1							-	-	-	-	-	-	-	<1	-	-
Bromodichloromethane	µg/L	1							-	-	-	-	-	-	-	<1	-	-
Bromoform	µg/L	1							-	-	-	-	-	-	-	<1	-	-
Carbon disulfide	μg/L μg/L	1							-	-	-	-	-	-	-	<1	-	-
Chlorodibromomethane	µg/L	1								-	-		-	-	-	<1	1	1
Chloroethane	µg/L	1							-	-	-					<1		
cis-1,3-dichloropropene	μg/L	1								-	-	-	-	-	-	<1	-	-
cis-1,4-Dichloro-2-butene	µg/L	5								-	-	-		-	-		-	
Dibromomethane	µg/L	1										1		1 - 1		<1	-	
Iodomethane	µg/L	1								-	-	-	-	-	-	<1	-	-
n-butylbenzene	µg/L	5							-	-	-	-		-		-		
n-propylbenzene	µg/L	5							-	-	-	-	-	-	-	-	-	-
Pentachloroethane	µg/L	5								-	-	-				_		-
p-isopropyltoluene	µg/L	5								-	-	-	-	-	-	-	-	-
sec-butylbenzene	μg/L	5								-	-	-	-		-	-	-	-
Trichloroethene (TCE)	μg/L	1								-	-	-	-		-	<1	-	-
tert-butylbenzene	μg/L	5							-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	1						500		-	-	-	-		-	<1	-	-
trans-1,2-dichloroethene	μg/L	1							-	-	-	-	-		-	<1	-	-
trans-1,3-dichloropropene	µg/L	1							-	-	-	-	-	-	-	<1	-	-
trans-1,4-Dichloro-2-butene	µg/L	5							-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	μg/L	1							-	-	-	-	-		-	<1	-	-
Vinyl acetate	μg/L	50							-	-	-	-	-		-	-	-	-
* "	1.0.	1 -0				-									1		1	



								Location Code	NEL-BH064	NEL-BH070	NEL-BH071	NEL-BH072	NEL-BH076	NEL-BH076A	NEL-BH078
								Field ID	NEL-BH064 / 140218	NEL-BH070 / 120218	NEL-BH071/170418	NEL-BH072 / 120218	NEL-BH076/170418	NEL-BH076A/170418	NEL-BH078/170418
								Date	14/02/2018	12/02/2018	17/04/2018		17/04/2018	17/04/2018	17/04/2018
												12/02/2018			
								Sample Type	Normal						
								Lab Report Number	584987 / EM1802989	584938	594757 / EM1806408	584938	594757 / EM1806408	594757 / EM1806408	594757 / EM1806408
			ANZECC 2000 -		ANZECC 2000		ANZECC 2000 Irrigation -	NHMRC Recreational							
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008							
Phenois															
3,4-Methylphenol (m,p-cresol)	μg/L	4							-	-	-	-	-	-	-
2,3,4,6-Tetrachlorophenol	μg/L	10		20	10				-	-	-	-	-	-	-
2,4,5-trichlorophenol	μg/L	2							-	-	-	-	-	-	-
2,4,6-trichlorophenol	μg/L	2		20	3			200	-	-	-	-	-	-	-
2,4-dichlorophenol	μg/L	2		160	120			2000	-	-	-	-	-	-	-
2,4-dimethylphenol	μg/L	2							-	-	-	-	-	-	-
2,4-dinitrophenol	μg/L	30		45	13				-	-	-	-	-	-	-
2,6-dichlorophenol	μg/L	2							-			-	-	-	
2-chlorophenol	µg/L	2		490	340			3000	-			-	-	-	
2-methylnaphthalene	μg/L	2							-			-	-	-	
2-methylphenol	µg/L	2							-			-	-	-	
2-nitrophenol	µg/L	2									-	-	-		
3-methylcholanthrene	µg/L	2							-	-	-	-	-	-	-
4,6-Dinitro-o-cyclohexyl phenol	µg/L	100							-	-	-	-	-	-	-
4-chloro-3-methylphenol	µg/L	2								-	-	-	_	_	-
4-nitrophenol	µg/L	30							-	-	-		-	-	-
Acetophenone	µg/L	2								-	_	-		†	-
Pentachlorophenol	µg/L	4		10	3.6			100		-			-		
Phenol	µg/L	2		320	85			100		-	-		-	1	-
		30		320	00						-		-	-	
tetrachlorophenois	μg/L								-	-		-			-
Phenois (Total Halogenated)	μg/L	10							-	-	-	-	-	-	-
Phenols (Total Non Halogenated)	μg/L	100							-	-	-	-	-	-	-
VOCs															
1,1-dichloroethane	μg/L	1							-	-	-	-	-	-	-
1,2,3-trichlorobenzene	μg/L	1		10	3				-	-	-	-	-	-	-
1,2,3-trichloropropane	μg/L	1							-	-	-	-	-	-	-
1,2-dibromoethane	µg/L	1						10	-	-	-	-	-	-	-
1,3-dichlorobenzene	μg/L	1		260	160				-	-	-	-	-	-	-
2-butanone (MEK)	µg/L	1							-	-	-	-	-	-	-
2-hexanone (MBK)	μg/L	50							-	-	-	-	-	-	-
4-methyl-2-pentanone (MIBK)	μg/L	1							-	-	-	-	-	-	-
Acetone	μg/L	1							-	-	-	-	-	-	-
Allyl chloride	μg/L	- 1							-	-	-	-	-	-	-
Bromodichloromethane	μg/L	- 1							-	-	-	-	-	-	-
Bromoform	μg/L	- 1							-	-	-	-	-	-	-
Carbon disulfide	μg/L	1							-	-	-	-	-	-	-
Chlorodibromomethane	μg/L	1							-	-	-	-	-	-	-
Chloroethane	μg/L	1							-			-	-	-	
cis-1,3-dichloropropene	µg/L	1							-	-	-	-	-	-	-
cis-1,4-Dichloro-2-butene	µg/L	5							-			-	-	-	-
Dibromomethane	µg/L	1							-		-	-	-		-
Iodomethane	µg/L	1								-					
n-butylbenzene	µg/L	5							-	-	-	-	-	-	-
n-propylbenzene	µg/L	5							-	-	_	-	-		-
Pentachloroethane	µg/L	5								_	_	-	_		-
p-isopropyltoluene	µg/L	5							-	-	-	-	-		-
sec-butylbenzene	µg/L	5							-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	1							- :		-	-			-
tert-butylbenzene		5													
Tetrachloroethene	µg/L	1						500	-	-	-	-	-	-	-
	μg/L	1						500	-	-	-	-			-
trans-1,2-dichloroethene	µg/L												-	-	
trans-1,3-dichloropropene	μg/L	1							-	-	-	-	-	-	-
trans-1,4-Dichloro-2-butene	µg/L	5							-	-	-	-	-	-	-
Trichlorofluoromethane	μg/L	1							-	-	-	-	-	-	-
Vinyl acetate	µg/L	50							-	-	-	-	-	-	-



								Location Code	NEL-BH083	NEL-BH086	NEL-BH086	NEL-BH086	NEL-BH087	NEL-BH088	NEL-BH089	NEL-BH091	NEL-BH093
								Field ID	NEL-BH083 / 160418	NEL-BH086 / 120718	QC1 / 120718	QC2/120718	NEL-BH087 / 120718	NEL-BH088 / 120718	NEL-BH089 / 120718	NEL-BH091/160218	NEL-BH093 / 160418
								Date	16/04/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	16/02/2018	16/04/2018
								Sample Type	Nomal	Normal	Field_D	Field_D	Normal	Normal	Normal	Normal	Normal
								Lab Report Number	594417 / EM1806339	607533 / EM1811208	607533	EM1811208	607533 / EM1811208	607533 / EM1811208	607533 / EM1811208	585329 / EM1803154	594417 / EM1806339
	Unit	EQL	ANZECC 2000 - Stock Watering	ANZECC 2000 FW 95%	ANZECC 2000 FW 99%	PFAS NEMP 2018 Freshwater 99%	ANZECC 2000 Irrigation -	NHMRC Recreational Guidelines 2008		•	•	•	•	•	•	•	•
Phenois	Offic	LUL	Stock watering	FVV 95%	FVV 99%	riesiiwatei 99%	Long-term Trigger Values	Guidelines 2006		1	1	1	1	1	1	1	1
3,4-Methylphenol (m,p-cresol)	µg/L	4								<6	<6	<4	<6	<6	<6	<6	_
2,3,4,6-Tetrachlorophenol	µg/L	10		20	10				- :	<10	<10		<10	<10	<10	<10	
2,4,5-trichlorophenol	μg/L μg/L			20	10					<10	<10	<2	<10	<10	<10	<10	
		2		20	3			200	-	<10	<10	<2	<10	<10	<10	<10	-
2,4,6-trichlorophenol 2,4-dichlorophenol	μg/L μg/L	2		160	120			2000		<3	<3	<2	<3	<3	<3	<3	
2,4-direntlylphenol	µg/L µg/L	2		160	120			2000		<3	<3	<2	<3	<3	- 3	<3	
				45	40					<30	<30		<30	<30	<30		
2,4-dinitrophenol 2,6-dichlorophenol	μg/L μg/L	30		45	13					<3	<3	<2	<3	<3	<3	<30	
		2		490	340			3000	-	3	<3	<2	<3	<3	- 3	<3	-
2-chlorophenol 2-methylnaphthalene	μg/L			490	340			3000					-	~			
	μg/L	2							-	<5	<5	<2	<5	<5	<5	<5	-
2-methylphenol 2-nitrophenol	μg/L μg/L	2								<3	<3	<2	<3	<3	<3	<3	
2-nitropnenoi 3-methylcholanthrene	µg/L µg/L	2							-	<10	<10 <5	<2	<10 <5	<10 <5	<10 <5	<10 <5	-
									-					<100			-
4,6-Dinitro-o-cyclohexyl phenol	μg/L	100								<100	<100	-	<100		<100	<100	
4-chloro-3-methylphenol	μg/L	2							-	<10	<10	<2	<10	<10	<10	<10	-
4-nitrophenol	μg/L	30							-	<30	<30	-	<30	<30	<30	<30	-
Acetophenone	μg/L	2							-	<5	<5	<2	<5	<5	<5	<5	-
Pentachlorophenol Phenol	µg/L	4		10 320	3.6 85			100	-	<10	<10	<4	<10	<10	<10	<10	-
	μg/L	2		320	85				-	<3	<3	<2	<3	<3	7	<3	-
tetrachlorophenols	μg/L	30							-	<30	<30	-	<30	<30	<30	<30	-
Phenols (Total Halogenated)	μg/L	10							-	<10	<10	-	<10	<10	<10	<10	-
Phenols (Total Non Halogenated)	μg/L	100							-	<100	<100	-	<100	<100	<100	<100	-
VOCs																	
1,1-dichloroethane	μg/L	1							-	<1	<1	<5	<1	<1	<1	<1	-
1,2,3-trichlorobenzene	μg/L	1		10	3				-	<5	<5	<5	<5	<5	<5	<5	-
1,2,3-trichloropropane	μg/L	1							-	<1	<1	<5	<1	<1	<1	<1	-
1,2-dibromoethane	μg/L	1						10	-	<1	<1	<5	<1	<1	<1	<1	-
1,3-dichlorobenzene	μg/L	1		260	160				-	<1	<1	<2	<1	<1	<1	<1	-
2-butanone (MEK)	μg/L	1							-	<1	<1	<50	<1	<1	2	<1	-
2-hexanone (MBK)	μg/L	50							-	-	-	<50	-	-	-	-	-
4-methyl-2-pentanone (MIBK)	μg/L	1							-	<1	<1	<50	<1	<1	<1	<1	-
Acetone	μg/L	1							-	<1	<1	-	<1	<5	41	<1	-
Allyl chloride	μg/L	1							-	<1	<1	-	<1	<1	<1	<1	-
Bromodichloromethane	μg/L	1							-	<1	<1	<5	<1	<1	<1	1	-
Bromoform	μg/L	1							-	<1	<1	<5	<1	<1	<1	<1	-
Carbon disulfide	μg/L	1							-	<1	<1	<5	<1	<1	1	<1	-
Chlorodibromomethane	μg/L	1								<1	<1	<5	<1	<1	<1	<1	-
Chloroethane	μg/L	1							-	<1	<1	<50	<1	<1	<1	<1	-
cis-1,3-dichloropropene	μg/L	1							-	<1	<1	<5	<1	<1	<1	<1	-
cis-1,4-Dichloro-2-butene	μg/L	5								-	-	<5	-	-	-	-	-
Dibromomethane	μg/L	1							-	<1	<1	<5	<1	<1	<1	<1	-
lodomethane	μg/L	1							-	<1	<1	<5	<1	<1	<1	<1	-
n-butylbenzene	μg/L	5							-	-	-	<5	-	-	-	-	-
n-propylbenzene	μg/L	5							-	-	-	<5	-	-	-	-	-
Pentachloroethane	μg/L	5							-	-	-	<5	-	-	-	-	-
p-isopropyltoluene	μg/L	5							-	-	-	<5	-	-	-	-	-
sec-butylbenzene	μg/L	5							-	-	-	<5	-	-	-	-	-
Trichloroethene (TCE)	μg/L	1							-	<1	<1	<5	<1	<1	<1	<1	-
tert-butylbenzene	μg/L	5							-	-	-	<5	-	-	-	-	-
Tetrachloroethene	μg/L	1						500	-	<1	<1	<5	<1	<1	<1	<1	-
trans-1,2-dichloroethene	μg/L	1							-	<1	<1	<5	<1	<1	<1	<1	-
trans-1,3-dichloropropene	μg/L	1							-	<1	<1	<5	<1	<1	<1	<1	-
trans-1,4-Dichloro-2-butene	μg/L	5							-	-	-	<5	-	-	-	-	-
Trichlorofluoromethane	µg/L	1							-	<1	<1	<50	<1	<1	<1	<1	-
Vinvl acetate	μg/L	50															



								Location Code	NEL-BH095	NEL-BH097	NEL-BH098	NEL-BH106	NEL-BH107	NEL-BH125	NEL-BH125	NEL-BH125
								Fleid ID	NEL-BH095 / 130218	NEL-BH097/150218	NEL-BH098/150218	NEL-BH106 / 160418	NEL-BH107 / 160418	NEL-BH125/160218	QC1/160218	QC2/160218
								Date	13/02/2018	15/02/2018	15/02/2018	16/04/2018	16/04/2018	16/02/2018	16/02/2018	16/02/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Field_D
								Lab Report Number	584938	585222 / EM1803079	585222 / EM1803079	594417 / EM1806339	594417 / EM1806339	585329 / EM1803154	585329 / EM1803154	EM1803154
		1	ANZECC 2000 -	AN7ECC 200	0 ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational								1
	Unit	EQL														
	Unit	EUL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008	ļ.		1		1	1	1	i .
Phenois																
3,4-Methylphenol (m,p-cresol)	µg/L	4							-	-	-	-	-	<6	<6	<4
2,3,4,6-Tetrachlorophenol	µg/L	10		20	10				-	-	-	-	-	<10	<10	-
2,4,5-trichlorophenol	µg/L	2							-	-	-	-	-	<10	<10	<2
2,4,6-trichlorophenol	μg/L	2		20	3			200				-	-	<10	<10	<2
2,4-dichlorophenol	µg/L	2		160	120			2000	-	-	-	-	-	<3	<3	<2
2,4-dimethylphenol	µg/L	2		100	120			2000	-	-	-	-	-	<3	<3	<2
2,4-dinitrophenol	μg/L	30		45	13				-	-	-	-	-	<30	<30	-
2,6-dichlorophenol	µg/L	2							-	-	-	-	-	<3	<3	<2
2-chlorophenol	µg/L	2		490	340			3000	-	-	-	-	-	<3	<3	<2
2-methylnaphthalene	µg/L	2							-	-	-	-	-	<5	<5	<2
2-methylphenol	μg/L	2							-	-	-	-	-	<3	<3	<2
2-nitrophenol	µg/L	2							-	-	-	-	-	<10	<10	<2
3-methylcholanthrene	µg/L	2							-		-	-	-	<5	<5	<2
4,6-Dinitro-o-cyclohexyl phenol	µg/L	100							-	-	-	-	-	<100	<100	-
4-chloro-3-methylphenol	µg/L	2							-	-	-	-	-	<10	<10	<2
4-nitrophenol	µg/L	30							-	-	-	-	-	<30	<30	-
Acetophenone	µg/L	2							-	-	-	-	-	<5	<5	<2
Pentachlorophenol	μg/L	4		10	3.6			100	-	-	-	-	-	<10	<10	<4
Phenol	μg/L	2		320	85						-	-	-	<3	<3	<2
tetrachlorophenols	µg/L	30							-	-	-	-	-	<30	<30	-
Phenols (Total Halogenated)	μg/L	10							-	-	-	-	-	<10	<10	-
Phenols (Total Non Halogenated)	μg/L	100							-	-	-	-	-	<100	<100	-
VOCs																
1,1-dichloroethane	µg/L	- 1							-	-	-	-	-	<1	<1	<5
1,2,3-trichlorobenzene	µg/L	- 1		10	3				-	-	-	-	-	<5	<5	<5
1,2,3-trichloropropane	μg/L	- 1										-	-	<1	<1	<5
1,2-dibromoethane	µg/L	1						10		-	-	-	-	<1	<1	<5
1,3-dichlorobenzene		1		260	160			10			_		_	<1	<1	<2
	μg/L			200	100										· · · · · · · · · · · · · · · · · · ·	
2-butanone (MEK)	μg/L	1							-	-	-	-	-	<1	<1	<50
2-hexanone (MBK)	µg/L	50								-	-	-	-	-	-	<50
4-methyl-2-pentanone (MIBK)	µg/L	1							-	-	-	-	-	<1	<1	<50
Acetone	µg/L	- 1							-	-	-	-	-	<5	<5	-
Allyl chloride	μg/L	- 1							-	-	-	-	-	<1	<1	-
Bromodichloromethane	μg/L	- 1								-	-	-	-	<1	<1	<5
Bromoform	µg/L	1							-	-	-	-	-	<1	<1	<5
Carbon disulfide																
	µg/L	1							-	-	-	-	-	<1	<1	<5
Chlorodibromomethane	µg/L	1							-	-	-	-	-	<1	<1	<5
Chloroethane	µg/L	- 1							-	-	-	-	-	<1	<1	<50
cis-1,3-dichloropropene	µg/L	1							-	-	-	-	-	<1	<1	<5
cis-1,4-Dichloro-2-butene	μg/L	5							-	-	-	-	-	-	-	<5
Dibromomethane	μg/L	- 1										-	-	<1	<1	<5
Iodomethane	µg/L	1							-	-	-	-	-	<1	<1	<5
n-butylbenzene	µg/L	5										-				<5
										-	-		-		-	
n-propylbenzene	μg/L	5							-	-	-	-	-	-	-	<5
Pentachloroethane	µg/L	5							-	-	-	-	-	-	-	<5
p-isopropyltoluene	μg/L	5							-	-	-	-	-	-	-	<5
sec-butylbenzene	μg/L	5							-	-	-	-	-	-	-	<5
Trichloroethene (TCE)	μg/L	1								-	-	-	-	<1	<1	<5
tert-butylbenzene	µg/L	5							-	-	-	-	-	-	-	<5
	µg/L	1						500						<1		
Tetrachloroethene								500		-	-	-	-		<1	<5
trans-1,2-dichloroethene	µg/L	1							-	-	-	-	-	<1	<1	<5
trans-1,3-dichloropropene	μg/L	1							-	-	-	-	-	<1	<1	<5
trans-1,4-Dichloro-2-butene	µg/L	5								-	-	-	-	-	-	<5
Trichlorofluoromethane	uo/I	- 1									_			<1	<1	<50



Field ID NEL-BH128080318 NEL-BH140109418	NEL-ENV-BH009_19072018 19/07/2018 Normal EM1811589	ENV-BH014 / 130718 13/07/2018 Normal 607533 / EM1811208
Data 803/2018 1804/2018 2706/2018 803/2018 2706/2018 803/2018 2706/2018 803/2018 2706/2018 803/2018 2706/2018 803/201	Normal EM1811589	Nomal
ANZECC 2000 ANZECC 2000	Normal EM1811589	Nomal
ANZECC 2000 - ANZECC 2000 ANZECC 2000 ANZECC 2000 FAS NEMP 2018 Sabs/1 S	EM1811589	
ANZECC 2000 - ANZECC 2000 - ANZECC 2000 PFAS NEMP 2018 ANZECC 2000	1	60/533 / EM1811208
Unit EOL Stock Watering FW 99% Freshwater 99% Long-term Trigger Values Guidelines 2008	1	
Phenois	1	
3.4-Methylphenol (m.p-cresol) µg/L 4 <4 <4 <4	-	<6
2,3.4,6-Tetrachlorophenol µg/L 10 20 10 <10	-	<10
2.4.5-trichlorophenol µg/L 2 <10 - <2 <2 <2	-	<10
2.4.6-trichlorophenol µg/L 2 20 3 200 <10 - <2 <2 <2	-	<10
2,4-dichlorophenol µg/L 2 160 120 2000 <3 - <2 <2 <2	-	<3
2,4-dimethylphenol µgL 2	-	<3
2,4-dintrophenol µg.L 30 45 13 <0	-	<30
Z-y-amosphenia yg	-	<3
	-	<3
	•	
2-metry/naphthalene	-	<5
2-methylphenol µg/L 2	-	<3
2-nitrophenol yg/L 2 <10 - <2 <2 <2	-	<10
3-methylcholanthrene µgL 2 < < < < < <	-	<5
4,6-Dinitro-o-cyclohexyl phenol µg/L 100	-	<100
4-chloro-3-methylphenol µg/L 2 <10 - <2 <2 <2	-	<10
4-hitrophenol µgL 30	-	<30
Acetophenone µgL 2 < < - <2 <2 <2	-	<5
Pertachlorophenol µg/L 4 10 3.6 100 <10 - <4 <4 <4	-	<10
Phenol µg/L 2 320 85 < - < < < < < < < < < < < < <	-	<3
tefrachlorophenols µg/L 30	_	<30
There is (Total Halogenated) pp 10 10 10 10 10 10 10	_	<10
Friends (Total Non-Halogensted) yg L 100	-	<100
	-	<100
VOCs .		
1,1-dichloroethane ugl. 1	-	<1
1,2,3-trichlorobenzene µgL 1 10 3 < - <5 <5 <5	-	<5
1.23-inchloropropane µgL 1 < < < <	-	<1
1,2-dibromoethane µgL 1 10 < < < < <	-	<1
1,3-dichlorobenzene µg/L 1 260 160 <1 - <2 <2 <2	-	<1
2-butanone (MEK) µg/L 1 <50 <50 <50	-	<1
2-hexanone (MBK)	-	-
4-methyl-2-pentanone (MIBK) µg/L 1 <50 <50 <50	-	<1
Acetone μgL 1	-	<1
Allyl chloride	-	<1
Bromodichloromethane	-	<1
Bronolom yg/L 1 <5 <5 <5	_	<1
Carbon distrible 1921 1	_	<1
	-	<1
		<1
	-	
		<1
cis-1,4-Dichloro-2-butene µgL 5 <	-	-
Dibromomethane µgL 1	-	<1
Iodomethane	-	<1
n-butylbenzene µg/L 5 < <5 <5 <5	-	-
n-propylbenzene µg/L 5 < < <5 <5	-	-
Pentachloroethane μg/L 5 < < < < <	-	-
p-isopropyltduene ugl 5 < < < <	-	-
secutyberzene µgL 5 < < < <	-	
Trichloroethere (TCE)	_	<1
tert-buly(benzene yg.L 5 < 5 < 5 < 5	_	-
	-	<1
resolution	-	<1
	-	<1
trans-14-Dichtoro-2-butne yg.L 5	-	-
Par 1	-	<1
Vinyl acetale µgL 50 <50 <50 <50	-	-

NEL-PB01A

NEL-ENV-BH032



Appendix J Table 5 Summary of Groundwater Analytical Results

Location Code NEL-ENV-BH022 NEL-ENV-BH024

NEL-ENV-BH024 NEL-ENV-BH024 NEL-ENV-BH024

NEL-ENV-BH025

								Fleld ID	NEL-ENV-BH022	NEL-ENV-BH024 08052018	NEL-ENV-BH024 19072018	QC5000 08052018	QC6000 08052018	NEL-ENV-BH025 09052018	NEL-ENV-BH032 27062018	NEL-PB01A
								Date	27/09/2018	8/05/2018	19/07/2018	8/05/2018	8/05/2018	9/05/2018	27/06/2018	6/07/2018
								Sample Type	Normal	Normal	Normal	Field_D	Field_D	Normal	Normal	Normal
								Lab Report Number	Normal EM1815577	Normal EM1807515	Normal EM1811589	EM1807515	EM1807515	Normai EM1807669	Normai EM1810368	607533
		-							EM18155//	EM180/515	EM1811589	EM1807515	EM180/515	EM180/669	EM1810368	607533
		F01	ANZECC 2000 -		00 ANZECC 2000		ANZECC 2000 Irrigation -	NHMRC Recreational								
Ph I	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008			1	1	1	1	1	1
Phenois																
3,4-Methylphenol (m,p-cresol)	μg/L	4							14	<4	-	<4	<4	<4	<4	
2,3,4,6-Tetrachlorophenol	μg/L	10		20	10				-	-	-	-	-	-	-	-
2,4,5-trichlorophenol	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
2,4,6-trichlorophenol	μg/L	2		20	3			200	<2	<2	-	<2	<2	<2	<2	-
2,4-dichlorophenol	μg/L	2		160	120			2000	<2	<2	-	<2	<2	<2	<2	-
2,4-dimethylphenol	μg/L	2							6	<2	-	<2	<2	<2	<2	-
2,4-dinitrophenol	μg/L	30		45	13				-	-	-	-	-	-	-	-
2,6-dichlorophenol	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
2-chlorophenol	μg/L	2		490	340			3000	<2	<2	-	<2	<2	<2	<2	-
2-methylnaphthalene	μg/L	2							36	<2	-	<2	<2	<2	<2	-
2-methylphenol	µg/L	2							32	<2	-	<2	<2	<2	<2	-
2-nitrophenol	μg/L	2							<2	<2	-	<2	<2	<2	<2	
3-methylcholanthrene	µg/L	2							<2	<2	-	<2	<2	<2	<2	-
4,6-Dinitro-o-cyclohexyl phenol	µg/L	100								-		-		-	-	_
4-chloro-3-methylphenol	µg/L	2							<2	<2	-	<2	<2	<2	<2	-
4-nitrophenol	µg/L	30							- 4			-				-
Acetophenone		2							86	<2	-	<2	<2	<2	<2	-
Pentachlorophenol	μg/L μg/L	4		10	3.6			100	86 <4	<2	-	<2	<2	<2	<2	
								100			-					-
Phenol	μg/L	2		320	85				4	<2	-	<2	<2	<2	<2	-
tetrachlorophenols	μg/L	30							-	-	-	-	-	-	-	-
Phenols (Total Halogenated)	μg/L	10							-	-	-	-	-	-	-	-
Phenols (Total Non Halogenated)	μg/L	100							-	-	-	-	-	-	-	-
VOCs																
1,1-dichloroethane	μg/L	- 1							<100	<5	-	<5	<5	<5	<5	-
1,2,3-trichlorobenzene	μg/L	1		10	3				<100	<5	-	<5	<5	<5	<5	-
1,2,3-trichloropropane	μg/L	- 1							<100	<5	-	<5	<5	<5	<5	-
1,2-dibromoethane	μg/L	- 1						10	<100	<5	-	<5	<5	<5	<5	-
1,3-dichlorobenzene	μg/L	- 1		260	160				<2	<2	-	<2	<2	<2	<2	-
2-butanone (MEK)	μg/L	- 1							<1.000	<50	-	<50	<50	<50	<50	-
2-hexanone (MBK)	μg/L	50							<1,000	<50	-	<50	<50	<50	<50	-
4-methyl-2-pentanone (MIBK)	μg/L	1							<1,000	<50	-	<50	<50	<50	<50	-
Acetone	μg/L	1							-	-	-	-	-	-	-	
Allyl chloride	µg/L	1								-	_	-	-		-	-
Bromodichloromethane	µg/L	1							<100	<5		<5	<5	<5	<5	-
Bromoform	µg/L	1							<100	<5		<5	<5	<5	<5	-
Carbon disulfide		1							<100			<5	<5	<5	<5	-
	μg/L															
Chlorodibromomethane Chloroethane	μg/L	1							<100	<5	-	<5	<5	<5	<5	-
	μg/L	1							<1,000	<50	-	<50	<50	<50	<50	-
cis-1,3-dichloropropene	μg/L	- 1							<100	<5		<5	<5	<5	<5	-
cis-1,4-Dichloro-2-butene	μg/L	5							<100	<5	-	<5	<5	<5	<5	-
Dibromomethane	μg/L	1							<100	<5	-	<5	<5	<5	<5	-
lodomethane	μg/L	- 1							<100	<5	-	<5	<5	<5	<5	-
n-butylbenzene	μg/L	5							<100	<5	-	<5	<5	<5	<5	-
n-propylbenzene	μg/L	5							<100	<5	-	<5	<5	<5	<5	-
Pentachloroethane	μg/L	5							<100	<5	-	<5	<5	<5	<5	-
p-isopropyltoluene	μg/L	5							<100	<5	-	<5	<5	<5	<5	-
sec-butylbenzene	μg/L	5							<100	<5	-	<5	<5	<5	<5	-
Trichloroethene (TCE)	µg/L	1							<100	<5	-	<5	<5	<5	<5	-
tert-butylbenzene	µg/L	5							<100	<5		<5	<5	<5	<5	-
Tetrachloroethene	µg/L	1						500	<100	<5	1		<5	382	<5	
trans-1,2-dichloroethene	µg/L	1						000	<100	<5		<5	<5	302 <5	<5	-
									~100		-	-				
trans-1,3-dichloropropene	μg/L	1 5							-400	<5	-	<5	<5	<5	<5	-
trans-1,4-Dichloro-2-butene	μg/L	_							<100	<5		<5	<5	<5	<5	-
Trichlorofluoromethane	μg/L	1							<1,000	<50	-	<50	<50	<50	<50	-
Vinyl acetate	µg/L	50							<1.000	<50	_	<50	<50	<50	<50	_

NEL-BH039



Appendix J Table 5 Summary of Groundwater Analytical Results

Location Code NEL-BH004 NEL-BH004A

NEL-BH031

NEL-BH031

NEL-BH038

NEL-BH039

NEL-BH039

NEL-BH037

								Field ID	NEL-DI 1004	NEL-DITIONA C/4F0040	NEL-DI 1001	NEL DUOSA / 400040	NEL DUOST (400440	NEL DUOSO / 440040	NEL DUOSO/400440	004400440	000 (400440
										NEL-BH004 S/150218	NEL-BH031/080318	NEL-BH031 / 130218	NEL-BH037 / 160418	NEL-BH038 / 140218	NEL-BH039/180418	QC1/180418	QC2 / 180418
								Date	15/02/2018	15/02/2018	8/03/2018	13/02/2018	16/04/2018	14/02/2018	18/04/2018	18/04/2018	18/04/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Field_D
								Lab Report Number	585222 / EM1803079	585222 / EM1803079	588501	584938	594417 / EM1806339	584987 / EM1802989	594938 / EM1806473	594938 / EM1806473	EM1806473
			ANZECC 2000 -	ANZECC 2000	ANZECC 2000	DEAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational						100 000 000			
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008									
SVOCa	OHL	LUL	Stock watering	FW 95%	FVV 99%	riesiiwatei 99%	Long-term ringger values	Guidelines 2006		1	1	1	1	1	1	1	ı
1,2,3,4-tetrachlorobenzene	μg/L	0.1								-	<0.1	-	-	-	<10	<10	-
1,2,3,5-Tetrachlorobenzene	μg/L	0.1							-	-	<0.1	-	-	-	<5	<5	-
1,2,4,5-tetrachlorobenzene	μg/L	0.1							-	-	<0.1	-	-	-	<5	<5	-
1,3,5-Trichlorobenzene	μg/L	0.1							-	-	< 0.1	-	-	-	<5	<5	-
1-Chloronaphthalene	μg/L	5									<5	_		_	<10	<10	
1-naphthylamine	μg/L	2								-	<5		-	-	<10	<10	<2
2-(acetylamino) fluorene																	
	μg/L	2							-	-	-	-	-	-	-	-	<2
2-naphthylamine	μg/L	5							-	-	<5	-	-	-	<10	<10	-
2-nitroaniline	μg/L	4							-	-	<5	-	-	-	<10	<10	<4
3,3-Dichlorobenzidine	μg/L	2							-	-	<5	-	-	-	<5	<5	<2
3-nitroaniline	μg/L	4							-	-	-	-	-	-	-	-	<4
4-(dimethylamino) azobenzene	μg/L	2									<5	-		-	<5	<5	<2
4,6-Dinitro-2-methylphenol	μg/L	30								-	<30		-		<30	<30	
4-bromophenyl phenyl ether									-			-		-			
	μg/L	2								-	<5	-	-	-	<5	<5	<2
4-chloroaniline	μg/L	2							-	-	-	-	-	-	-	-	<2
4-chlorophenyl phenyl ether	μg/L	2							-		<5			<u> </u>	<10	<10	<2
4-nitroaniline	μg/L	2							-	-	-	-	-	-	-	-	<2
4-Nitroquinoline-N-oxide	μg/L	2							-	-	-	-	-	-	-	-	<2
5-nitro-o-toluidine	µg/L	2							-	-	-	-	-	-	-	-	<2
7,12-dimethylbenz(a)anthracene	µg/L	2							-	-	<5	-	-	-	<5	<5	<2
				250	0				-	-		-	-	· ·			
Aniline	μg/L	2		250	8				-	-	<5	-	-	-	<5	<5	<2
Azobenzene	μg/L	2							-	-	-	-	-	-	-	-	<2
Benzyl chloride	μg/L	1							-	-	<1	-	-	-	<5	<5	-
Bis(2-chloroethoxy) methane	μg/L	2							-	-	<5	-	-	-	<5	<5	<2
Bis(2-chloroethyl)ether	μg/L	2							-	-	-	-	-	-	-	-	<2
Bis(2-chloroisopropyl) ether	µg/L	5							-	-	<5	-	-	-	<5	<5	-
Carbazole	μg/L	2								-						-	<2
									-	-	-	-	-	-	-		
Chlorobenzilate	μg/L	2								-	-	-	-	-	•	-	<2
Dibenz(a.j)acridine	μg/L	5							-	-	<5	-	-	-	<5	<5	-
Diphenylamine	μg/L	5							-	-	<5	-	-	-	<10	<10	-
Hexachlorocyclopentadiene	μg/L	0.1							-	-	< 0.1	-	-	-	<5	<5	<10
Hexachloroethane	μg/L	0.1		360	290				-	-	<0.1	-	-	-	<5	<5	<2
Hexachloropropene	μg/L	2									-	-					<2
Isophorone	μg/L	2							-	-	-	-	-		-	-	<2
									-	-		-	-	-		-	
Methapyrilene N-nitrosodiethylamine	μg/L	2								-	-	-	-	-	•	-	<2
	μg/L	2							-	-		-	-	-		-	<2
N-nitrosodi-n-butylamine	μg/L	2							-	-	<5	-	-	-	<5	<5	<2
N-nitrosodi-n-propylamine	μg/L	2							-	-	<5	-	-	-	<5	<5	<2
N-Nitrosomethylethylamine	μg/L	2							-	-	-	-	-	-	-	-	<2
N-nitrosomorpholine	μg/L	2							-	-	-	-	-	-	-	-	<2
N-nitrosopiperidine	µg/L	2									<5	_		_	<5	<5	<2
N-nitrosopyrrolidine	μg/L	4													~		< 4
Pentachlorobenzene	µg/L	0.1								-	<0.1	-	-	-	<10	<10	<2
									•	-	SU.1	-	-	-	<10	<10	
Phenacetin	μg/L	2							-	-	-	-	-	-	-	-	<2
Trifluralin	μg/L	5		4.4	2.6			900	-	-	<5	-	-	-	<5	<5	-
OC Pesticides																	
Organochlorine pesticides EPAVic	µg/L	1							-	-	<1	-	-	-	<1	<1	-
Other organochlorine pesticides EPAVic	µg/L	1								-	<1	T .	-	-	<1	<1	-
4,4-DDE	µg/L	0.1								-	<0.1	<u> </u>	-	-	<0.1	<0.1	<0.5
a-BHC	µg/L	0.1								1	<0.1		1	+	<0.1	<0.1	<0.5
									-	-		-	-	1			
Aldrin	μg/L	0.1							-	-	<0.1	-	-	-	<0.1	<0.1	<0.5
Aldrin + Dieldrin	μg/L	0.1						3	-	-	<0.1	-	-	-	<0.1	<0.1	<0.5
b-BHC	μg/L	0.1							-	-	<0.1	-	-	<u> </u>	<0.1	<0.1	< 0.5
Chlordane	μg/L	0.5		0.08	0.03				-	-	<1	-	-	-	<1	<1	<0.5
Chlordane (cis)	μg/L	0.5							-	-	-	-	-	-	-	-	<0.5
Chlordane (trans)	μg/L	0.5								-	-		-			-	<0.5
d-BHC	µg/L	0.1								1	<0.1	+	1	1	<0.1	<0.1	<0.5
									-	-		-	-	1			
4,4 DDD 4,4 DDT	μg/L	0.1			0.006				-	-	<0.1	-	-	-	<0.1	<0.1	<0.5
	μg/L	0.1		0.01	0.006			90	-	-	<0.1	-	-	-	<0.1	<0.1	<2.0
DDT+DDE+DDD - Lab Calc	μg/L	0.1							-	-	<0.1	-	-	<u> </u>	<0.1	<0.1	< 0.5
Dieldrin	μg/L	0.1							-	-	<0.1	-	-	-	< 0.1	<0.1	< 0.5
Endosulfan I	μg/L	0.1								-	<0.1	-	-		< 0.1	<0.1	<0.5
Endosulfan II	μg/L	0.1								-	<0.1	T .	-	-	<0.1	<0.1	<0.5
Endosulfan Sulfate	µg/L	0.1								1	<0.1	+	1	+	<0.1	<0.1	<0.5
									-	-		-	-	-			
Endrin	μg/L	0.1		0.02	0.01				-	-	<0.1	-	-	-	<0.1	<0.1	<0.5
Endrin aldehyde	μg/L	0.1							-	-	<0.1	-	-	-	<0.1	<0.1	< 0.5
Endrin ketone	μg/L	0.1							-	-	<0.1	-	-	-	<0.1	<0.1	< 0.5
g-BHC (Lindane)	μg/L	0.1		0.2	0.07			100	-	-	<0.1	-	-	-	< 0.1	<0.1	< 0.5
Heptachlor	μg/L	0.1		0.09	0.01			3		-	<0.1	-	-		< 0.1	<0.1	< 0.5
Heptachlor epoxide	μg/L	0.1								-	<0.1	T .	-	-	<0.1	<0.1	<0.5
Hexachlorobenzene	µg/L	0.1								1	<0.1	+	1	+	<0.1	<0.1	<0.5
								0000	-	-		<u> </u>	-	+			
Methoxychlor	μg/L	0.1						3000	-	-	<0.1	-	-	-	<0.1	<0.1	<2.0
Toxaphene	μg/L	10		0.2	0.1				<u> </u>	-	<10	-	-	<u> </u>	<10	<10	-



								Location Code	NEL-BH040	NEL-BH040A	NEL-BH044	NEL-BH059	NEL-BH060	NEL-BH062	NEL-BH062	NEL-BH062A	NEL-BH062B	NEL-BH062B
								Field ID	NEL-BH040 / 120218	NEL-BH040 A / 120218	NEL-BH044 / 130218	NEL-BH059 / 130218	NEL-BH060 / 140218	NEL-BH062/080318	NEL-BH062 / 140218	NEL-BH062 A / 160218	NEL-BH062B/080318	NEL-BH062 B / 140218
								Date	12/02/2018	12/02/2018	13/02/2018	13/02/2018	14/02/2018	8/03/2018	14/02/2018	16/02/2018	8/03/2018	14/02/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
								Lab Report Number	584938	584938	584938	584938	584987 / EM1802989	588501	584987 / EM1802989	585329 / EM1802989	588501	584987 / EM1802989
			ANZECC 2000 -	ANZECC 200	0 ANZECC 2000	PEAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational		•	•	•	•	•	•	•	•	•
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%		Guidelines 2008										
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008										
SVOCs																		
1,2,3,4-tetrachlorobenzene	μg/L	0.1											-	<0.1	-	<5	<0.1	-
									-		-							-
1,2,3,5-Tetrachlorobenzene	μg/L	0.1							-	-	-	-	-	<0.1	-	<5	<0.1	-
1,2,4,5-tetrachlorobenzene	μg/L	0.1							-	-	-	-	-	< 0.1	-	<5	< 0.1	-
1,3,5-Trichlorobenzene	μg/L	0.1												<0.1		<5	<0.1	-
	pgrt								-	-	-				-			_
1-Chloronaphthalene	μg/L	5							-	-	-	-	-	<5	-	<5	<5	-
1-naphthylamine	μg/L	2							-	-	-	-	-	<5	-	<5	<5	-
2-(acetylamino) fluorene		2									1	1	1		1		1	1
	μg/L								-	-	-	-	-	-	-	-	-	-
2-naphthylamine	μg/L	5							-	-	-	-	-	<5	-	<5	<5	-
2-nitroaniline	μg/L	4							_	_	_	_	_	<5		<5	<5	_
2 modelino	pgr													~		-0	-	
3,3-Dichlorobenzidine	μg/L	2							-	-	-	-	-	<5	-	<5	<5	-
3-nitroaniline	μg/L	4							-	-	-	-	-	-	-	-	-	-
4-(dimethylamino) azobenzene		2										-		<5	+	<5	<5	+
	μg/L								-	-	-	-	-		-			-
4,6-Dinitro-2-methylphenol	µg/L	30							-	-	-	-	-	<30	-	<30	<30	-
4-bromophenyl phenyl ether	μg/L	2							_	_	_	-	_	<5		<5	<5	-
										+	+	+	+	~	+		~	_
4-chloroaniline	μg/L	2							-	-	-	-	-	-	-	-	-	-
4-chlorophenyl phenyl ether	μg/L	2							-	-	-	-	-	<5	-	<5	<5	-
4-nitroaniline	μg/L	2								+	1	†	†		t		t	t
										+ -	+	+	+	<u> </u>	+	<u> </u>	 	
4-Nitroquinoline-N-oxide	μg/L	2							-	-	-	<u> </u>	<u> </u>	-	-	-	<u> </u>	-
5-nitro-o-toluidine	μg/L	2							-	-	-	-	-		-	-	-	-
7,12-dimethylbenz(a)anthracene		2								1	+	+	+	<5	1	<5	<5	
	μg/L								-	1	<u> </u>	-	· -	0	-	<5		
Aniline	μg/L	2		250	8				-	-	-		-	<5	-	<5	<5	-
Azobenzene	μg/L	2								1 -		· .	T .		1 -		<u> </u>	1 -
										+	+	-	-		-	-		
Benzyl chloride	μg/L	1							-	-	-	<u> </u>	<u> </u>	<1	-	<5	<1	<u> </u>
Bis(2-chloroethoxy) methane	μg/L	2							-	-	-	-	-	<5	-	<5	<5	-
Bis(2-chloroethyl)ether		2							-	-	-	-	-	-	-	-	-	-
	μg/L								-	-	-	-	-		-			-
Bis(2-chloroisopropyl) ether	μg/L	5							-	-	-	-	-	<5	-	<5	<5	-
Carbazole	μg/L	2											_			_	_	_
Chlorobenzilate	μg/L	2							-	-	-	-	-	-	-	-	-	-
Dibenz(a.j)acridine	μg/L	5							-	-	-	-	-	<5		<5	<5	-
Diphenylamine		5									1	1	l	-5		<5	<5	
	μg/L								-	-	-	-	-		-			-
Hexachlorocyclopentadiene	μg/L	0.1							-	-	-	-	-	< 0.1	-	<5	< 0.1	-
Hexachloroethane	μg/L	0.1		360	290				-	-	-	-	-	< 0.1	-	<5	< 0.1	-
	pgr			000	200													
Hexachloropropene	μg/L	2							-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	2							-	-	-	-	-	-	-	-	-	-
Methapyrilene	μg/L	2										-			-			-
wetriapyrilerie	pgr								-	-	-				-	_		_
N-nitrosodiethylamine	μg/L	2							-	-	-	-	-	-	-	-	-	-
N-nitrosodi-n-butylamine	μg/L	2							-	-	-	-	-	<5	-	<5	<5	-
N-nitrosodi-n-propylamine														-	+	-		+
	μg/L	2							-	-	-	-	-	<5	-	<5	<5	-
N-Nitrosomethylethylamine	μg/L	2							-	-	-	-	-	-	-	-	-	-
N-nitrosomorpholine	µg/L	2																
14-110 do oni di pri di ine									-	-	-				-	_		
N-nitrosopiperidine	μg/L	2							-	-	-	-	-	<5	-	<5	<5	-
N-nitrosopyrrolidine	μg/L	4							-	-	-	-	-	-	-	-	-	-
Pentachlorobenzene										+	-	-	-		+	-		-
	μg/L	0.1							-	-	-			<0.1	-	<5	<0.1	
Phenacetin	μg/L	2							-	-	-	-	-	-	-	-	-	-
Trifluralin	μg/L	5		4.4	2.6			900		-	-		-	<5	-	<5	<5	-
	ro-									1	+	+	+	~	+		~	+
OC Pesticides										1	1	ļ	ļ					
Organochlorine pesticides EPAVic	μg/L	1							-	-	-	-	-	<1	-	<1	<1	-
Other organochlorine pesticides EPAVic	µg/L	1								-	-	-		<1	-	<1	<1	_
4,4-DDE										+	+	+	+	<0.1	+	<0.1	<0.1	+
4,4*DDL	μg/L	0.1							-	1 -	-	-	-		-			-
a-BHC	μg/L	0.1							-	-	-	-	-	< 0.1	-	<0.1	< 0.1	-
Aldrin	μg/L	0.1								-	-	-	-	<0.1	-	<0.1	< 0.1	-
Aldrin + Dieldrin								3		1	+	+	+		+			+
	μg/L	0.1						3		-	-	-	<u> </u>	<0.1	-	<0.1	<0.1	-
b-BHC	μg/L	0.1							-	-	-	-	-	<0.1	-	<0.1	< 0.1	-
Chlordane	μg/L	0.5		0.08	0.03					-	-	-		<1	-	<1	<1	_
	pgru			0.00	0.00					+	+	+	+		+			+
Chlordane (cis)	μg/L	0.5							-	-	-	-	-	-	-	-	-	1 -
Chlordane (trans)	μg/L	0.5							-	-	-	-	-	-	-	-	-	-
d-BHC	μg/L	0.1								1 -		-	-	<0.1		<0.1	<0.1	-
										1 -	-	-	-		1			1
4,4 DDD	μg/L	0.1							-	-	-	<u> </u>	<u> </u>	<0.1	-	<0.1	<0.1	-
4,4 DDT	μg/L	0.1		0.01	0.006			90	-	-	-	-	-	<0.1	-	<0.1	< 0.1	-
DDT+DDE+DDD - Lab Calc		0.1								+	+	t	l	<0.1		<0.1	<0.1	-
	μg/L								-	1 -	<u> </u>	<u> </u>	-		-			-
Dieldrin	μg/L	0.1								-	-			<0.1	-	<0.1	< 0.1	-
Endosulfan I	μg/L	0.1								1 -		T .	T .	<0.1	1 -	<0.1	<0.1	-
Endosulfan II										+	+	+	+		+			
	μg/L	0.1							-	-	-	-	-	<0.1	-	<0.1	<0.1	-
Endosulfan Sulfate	μg/L	0.1							-	1	-	-	-	<0.1	-	<0.1	< 0.1	-
Endrin		0.1		0.02	0.01					1	+	+	+	<0.1	1	<0.1	<0.1	
	μg/L			0.02	0.01							-	-					
Endrin aldehyde	μg/L	0.1							-	-	-	-	-	<0.1	-	<0.1	< 0.1	-
Endrin ketone	μg/L	0.1								-	-	-		<0.1	-	<0.1	<0.1	
				0.0	0.07			400		1	+	+	+	<0.1	+			
g-BHC (Lindane)	μg/L	0.1		0.2				100	-	-	-	1 -			1	<0.1	<0.1	-
Heptachlor	μg/L	0.1		0.09	0.01			3	-	-	-	-	-	< 0.1	-	<0.1	<0.1	-
Heptachlor epoxide	μg/L	0.1								1 -		-	T .	<0.1	1 -	<0.1	<0.1	
										+	-		<u> </u>	50.1	+	50.1		
Hexachlorobenzene	μg/L	0.1							-	-	<u> </u>	<u> </u>	<u> </u>	<0.1	-	<0.1	<0.1	<u> </u>
Methoxychlor	μg/L	0.1						3000	-	-	-		-	<0.1	-	<0.1	<0.1	-
Toxaphene	µg/L	10		0.2	0.1					1	1	1	1	<10	1	<10	<10	
ronapriorid	P9/L	10		0.2	0.1					1	1	1	1	~10	1	~10	~10	1



								Location Code	NEL-BH064	NEL-BH070	NEL-BH071	NEL-BH072	NEL-BH076	NEL-BH076A	NEL-BH078
								Field ID	NEL-BH064 / 140218	NEL-BH070 / 120218	NEL-BH071/170418	NEL-BH072 / 120218	NEL-BH076/170418	NEL-BH076A/170418	NEL-BH078/170418
								Date	14/02/2018	12/02/2018	17/04/2018	12/02/2018	17/04/2018	17/04/2018	17/04/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Nomal
								Lab Report Number	584987 / EM1802989	584938	594757 / EM1806408	584938	594757 / EM1806408	594757 / EM1806408	594757 / EM1806408
	1	1	ANZECC 2000 -	ANIZECC 2001	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational	004001 / EM11002000	004000	0047077 EIII1000400	004000	5547577 EM1000400	0047077 EM1000400	0047077 EM1000400
	Unit	EQL													
avea.	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008		i.	i .	1	i.	i	1
SVOCs		-													
1,2,3,4-tetrachlorobenzene	μg/L	0.1							-	-	-	-	-	-	-
1,2,3,5-Tetrachlorobenzene	μg/L	0.1							-	-	-	-	-	-	-
1,2,4,5-tetrachlorobenzene	μg/L	0.1							-	-	-	-	-	-	-
1,3,5-Trichlorobenzene	μg/L	0.1							-	-	-	-	-	-	-
1-Chloronaphthalene	μg/L	5							-	-	-	-	-	-	-
1-naphthylamine	μg/L	2							-	-		-	-	-	-
2-(acetylamino) fluorene	µg/L	2								-	-	-	-		-
2-naphthylamine	µg/L	5													
2-nitroaniline		4							-	-		-			-
z-nitroaniine 3,3-Dichlorobenzidine	μg/L								•	-	-	-	•		-
	μg/L	2							-	-	-	-	-	-	-
3-nitroaniline	μg/L	4							-	-	-	-	-	-	-
4-(dimethylamino) azobenzene	µg/L	2							-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	μg/L	30							-	-	-	-	-	-	-
4-bromophenyl phenyl ether	μg/L	2							-	-		-	-	-	-
4-chloroaniline	μg/L	2								_					_
4-chlorophenyl phenyl ether	µg/L	2								-	-	-	-	-	-
4-nitroaniline	µg/L	2							-	-	-		-	-	-
4 Miles existed in Al exists		2								-	-	-	-		
4-Nitroquinoline-N-oxide	µg/L														-
5-nitro-o-toluidine	μg/L	2							-	-	-	-	-	-	-
7,12-dimethylbenz(a)anthracene	μg/L	2							-	-	-	-	-	-	-
Aniline	μg/L	2		250	8				-	-	-	-	-	-	-
Azobenzene	μg/L	2							-	-	-	-	-	-	-
Benzyl chloride	μg/L	1								-	-	-	-	-	-
Bis(2-chloroethoxy) methane	µg/L	2								-	l .	-		l .	-
Bis(2-chloroethyl)ether	μg/L	2							-	-	-	-	-	-	-
Bis(2-chloroisopropyl) ether	µg/L										-	-	-		
Bis(z-chloroisopropyr) etner		5							•	-	•	-	•	•	-
Carbazole	μg/L	2							-	-		-		-	-
Chlorobenzilate	μg/L	2							-	-	-	-	-	-	-
Dibenz(a.j)acridine	μg/L	5							-	-	-	-	-	-	-
Diphenylamine	μg/L	5							-	-	-	-	-	-	-
Hexachlorocyclopentadiene	μg/L	0.1								-	-	-		-	-
Hexachloroethane	μg/L	0.1		360	290					_					_
Hexachloropropene	µg/L	2		000	200									†	
Isophorone		2									-	-	-		-
	μg/L								•	-	•	-	•	•	-
Methapyrilene	μg/L	2							-	-	-	-	-	-	-
N-nitrosodiethylamine	µg/L	2							-	-	-	-	-	-	-
N-nitrosodi-n-butylamine	μg/L	2							-	-	-	-	-	-	-
N-nitrosodi-n-propylamine	μg/L	2							-	-	-	-	-	-	-
N-Nitrosomethylethylamine	μg/L	2							-	-	-	-	-	-	-
N-nitrosomorpholine	μg/L	2										-		-	
N-nitrosopiperidine	μg/L	2							-	-	-	-	_	-	-
N-nitrosopyrrolidine	µg/L	4							-	-	-	-	-	-	-
Pentachlorobenzene															
	μg/L	0.1							-	-	-	-	-	-	-
Phenacetin	μg/L	2							-	-	-	-	-	-	-
Trifluralin	μg/L	5		4.4	2.6			900	-	-	-	-	-	-	-
OC Pesticides	1	1 -												1	1
Organochlorine pesticides EPAVic	μg/L	1							-	-	-	-	-	-	-
Other organochlorine pesticides EPAVic	μg/L	1							-	-	-	-	-	-	-
4,4-DDE	μg/L	0.1								-	-	-	-	-	-
a-BHC	μg/L	0.1								-		-	_		
Aldrin	µg/L	0.1								<u> </u>	<u> </u>	-	<u> </u>	<u> </u>	<u> </u>
Aldrin + Dieldrin	µg/L	0.1						3		+	1	1	1	1	+
b-BHC	µg/L	0.1						,	-	-	-	-	-	-	-
					0.00								1 -		
Chlordane	μg/L	0.5		0.08	0.03				-	-	-	-	-	-	-
Chlordane (cis)	μg/L	0.5							-	-	-	-	-	-	-
Chlordane (trans)	μg/L	0.5							-	-	-	-	-	-	-
d-BHC	μg/L	0.1							-	-	-	-	-	-	-
4,4 DDD	μg/L	0.1							-	-	-	-	-	-	-
4,4 DDT	μg/L	0.1		0.01	0.006			90		-	-	-	-		
DDT+DDE+DDD - Lab Calc	μg/L	0.1							-	-	-	-	-	-	-
										-	-	-		1	
Dieldrin Endosulfan I	µg/L	0.1													
	μg/L	0.1							-	-	-	-	-	-	-
Endosulfan II	μg/L	0.1							-	-	-	-	-	· -	-
Endosulfan Sulfate	μg/L	0.1							-	-	-	-	-		
Endrin	μg/L	0.1		0.02	0.01				-	-	-	-	-	-	-
Endrin aldehyde	µg/L	0.1								-	-	-	-	-	-
Endrin ketone	μg/L	0.1								-	l .	-		l .	T .
g-BHC (Lindane)	μg/L	0.1		0.2	0.07			100	-	-	-	-	-	-	-
Heptachlor	µg/L	0.1		0.09	0.01			3		+	1	1	1	1	-
				0.05	0.01			,	-	1	 	-	-	 	+
Heptachlor epoxide	µg/L	0.1							-	-	-	-	-	· ·	-
Hexachlorobenzene	μg/L	0.1							-	-	-	-	-	-	-
Methoxychlor	μg/L	0.1						3000	-	-	-	-	-	· -	-
Toxaphene	ua/L	10		0.2	0.1				-	-	1 -		-		1 -



								Location Code	NEL-BH083	NEL-BH086	NEL-BH086	NEL-BH086	NEL-BH087	NEL-BH088	NEL-BH089	NEL-BH091	NEL-BH093
								Field ID	NEL-BH083 / 160418	NEL-BH086 / 120718	QC1 / 120718	QC2/120718	NEL-BH087 / 120718	NEL-BH088 / 120718	NEL-BH089 / 120718	NEL-BH091/160218	NEL-BH093 / 160418
								Date	16/04/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	16/02/2018	16/04/2018
								Sample Type	Normal	Normal	Field_D	Field_D	Normal	Normal	Normal	Normal	Normal
								Lab Report Number	594417 / EM1806339	607533 / EM1811208	607533	EM1811208	607533 / EM1811208	607533 / EM1811208	607533 / EM1811208	585329 / EM1803154	594417 / EM1806339
			ANZECC 2000 -				ANZECC 2000 Irrigation -	NHMRC Recreational					-				
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008									
SVOCs																	
1,2,3,4-tetrachlorobenzene	μg/L	0.1							-	<5	<5	-	<5	<5	<5	<5	-
1,2,3,5-Tetrachlorobenzene	μg/L	0.1							-	<5	<5	-	<5	<5	<5	<5	-
1,2,4,5-tetrachlorobenzene	μg/L	0.1							-	<5	<5	-	<5	<5	<5	<5	-
1,3,5-Trichlorobenzene	μg/L	0.1							-	<5	<5	-	<5	<5	<5	<5	-
1-Chloronaphthalene	μg/L	5							-	<5	<5	-	<5	<5	<5	<5	-
1-naphthylamine	μg/L	2							-	<5	<5	<2	<5	<5	<5	<5	-
2-(acetylamino) fluorene	μg/L	2							-	-	-	<2	-	-	-	-	-
2-naphthylamine	μg/L	5							-	<5	<5	-	<5	<5	<5	<5	-
2-nitroaniline	μg/L	4							-	<5	<5	<4	<5	<5	<5	<5	
3,3-Dichlorobenzidine	μg/L	2							-	<5	<5	<2	<5	<5	<5	<5	-
3-nitroaniline	μg/L	4							-	-	-	<4	-	-		-	
4-(dimethylamino) azobenzene	μg/L	2							-	<5	<5	<2	<5	<5	<5	<5	-
4,6-Dinitro-2-methylphenol	μg/L	30							-	<30	<30	*	<30	<30	<30	<30	*
4-bromophenyl phenyl ether 4-chloroaniline	μg/L	2							-	<5	<5	<2	<5	<5	<5	<5	-
	μg/L	2							-	-	-	<2	-	-		-	-
4-chlorophenyl phenyl ether 4-nitroaniline	µg/L	2							-	<5	<5	<2	<5	<5	<5	<5	-
4-nitrogniline 4-Nitroguinoline-N-oxide	µg/L	2							-	-	-	<2 <2	-	-	-	-	-
4-Nitroquinoline-N-oxide 5-nitro-o-toluidine	µg/L								-	-	-		-	-	ļ	-	-
7,12-dimethylbenz(a)anthracene	µg/L	2							-	<5	<5	<2	<5	<5	<5	<5	-
7,12-dimethylbenz(a)anthracene Aniline	μg/L μg/L	2		250	8												<u> </u>
Azobenzene Azobenzene				250	•					<5	<5	<2	<5	<5	<5	<5	<u> </u>
Azobenzene Benzyl chloride	μg/L μg/L	2							-	<5	<5	<z< td=""><td><5</td><td><5</td><td><5</td><td><5</td><td>-</td></z<>	<5	<5	<5	<5	-
Bis(2-chloroethoxy) methane	µg/L µg/L	2								- 5	<5	-	<5	<5	<5	<5	<u> </u>
Bis(2-chloroethyl)ether	µg/L	2										<2	- 0	<5		-	
Bis(2-chloroisopropyl) ether	µg/L	5							-	-6	<5	~2			-6	<5	-
Carbazole	µg/L	2							-			<2	49			45	-
Chlorobenzilate	µg/L	2							-	-	-	<2	-	-	-	-	-
Dibenz(a.j)acridine	µg/L	5							-	-	<5	*2	<5	<5	-	<5	-
Diphenylamine	µg/L	5							-	<5	<5	-	<5	<5	<5	<5	-
Hexachlorocyclopentadiene	µg/L	0.1							-		<5	<10	<5	-5	<5	<5	-
Hexachloroethane	µg/L	0.1		360	290					-5	<5	<2	<5	-5	-5	<5	
Hexachloropropene	µg/L	2		500	200					~	~	<2	~		- ~	~	
Isophorone	μg/L	2										<2			l .		
Methapyrilene	μg/L	2							-	-	-	<2	-	-	-		-
N-nitrosodiethylamine	µg/L	2								-	-	<2	-	-	-	-	-
N-nitrosodi-n-butylamine	μg/L	2								<5	<5	<2	<5	<5	<5	<5	
N-nitrosodi-n-propylamine	μg/L	2								<5	<5	<2	<5	<5	<5	<5	-
N-Nitrosomethylethylamine	μg/L	2							-	-	-	<2	-	-	-	-	
N-nitrosomorpholine	μg/L	2							-	-	-	<2	-	-	-	-	
N-nitrosopiperidine	μg/L	2							-	<5	<5	<2	<5	<5	<5	<5	
N-nitrosopyrrolidine	μg/L	4							-	-	-	<4	-	-	-	-	-
Pentachlorobenzene	μg/L	0.1							-	<5	<5	<2	<5	<5	<5	<5	-
Phenacetin	μg/L	2							-	-	-	<2	-	-	-	-	-
Trifluralin	μg/L	5		4.4	2.6			900	-	<5	<5	-	<5	<5	<5	<5	-
OC Pesticides																	
Organochlorine pesticides EPAVic	μg/L	1								<1	<1	-	<1	<1	<1	<1	-
Other organochlorine pesticides EPAVic	μg/L	1							-	<1	<1	-	<1	<1	<1	<1	-
4,4-DDE	μg/L	0.1							-	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
a-BHC	μg/L	0.1							-	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
Aldrin	μg/L	0.1							-	< 0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
Aldrin + Dieldrin	μg/L	0.1						3	-	< 0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
b-BHC	μg/L	0.1							-	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
Chlordane	μg/L	0.5		0.08	0.03				-	<1	<1	<0.5	<1	<1	<1	<1	-
Chlordane (cis)	μg/L	0.5							-	-	-	<0.5	-	-	-	-	-
Chlordane (trans)	μg/L	0.5							-	-	1	<0.5	-	-	1		-
d-BHC	μg/L	0.1							-	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
4,4 DDD	μg/L	0.1							-	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
4,4 DDT	μg/L	0.1		0.01	0.006			90	-	<0.1	<0.1	<2.0	<0.1	<0.1	<0.1	<0.1	-
DDT+DDE+DDD - Lab Calc	μg/L	0.1							-	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
Dieldrin	μg/L	0.1							-	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
Endosulfan I	µg/L	0.1							-	<0.1	<0.1	< 0.5	<0.1	<0.1	<0.1	<0.1	-
	μg/L	0.1							-	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1	-
Endosulfan Sulfate	μg/L	0.1							-	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
Endrin Endrin aldehyde	μg/L	0.1		0.02	0.01				-	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
	µg/L	0.1							-	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
Endrin ketone	μg/L	0.1			0.07				-	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
g-BHC (Lindane) Heptachlor	μg/L	0.1		0.2	0.07			100	-	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
	μg/L	0.1		0.09	0.01			3	-	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
									-	< 0.1	<0.1	< 0.5	<0.1	< 0.1	< 0.1	< 0.1	1 -
Heptachlor epoxide	µg/L																
Heptachlor epoxide Hexachlorobenzene	μg/L	0.1						2000	-	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	-
Heptachlor epoxide				0.2	0.1			3000	-		<0.1 <0.1 <10		<0.1				-



								Location Code	NEL-BH095	NEL-BH097	NEL-BH098	NEL-BH106	NEL-BH107	NEL-BH125	NEL-BH125	NEL-BH125
								Fleid ID	NEL-BH095 / 130218	NEL-BH097/150218	NEL-BH098/150218	NEL-BH106 / 160418	NEL-BH107 / 160418	NEL-BH125/160218	QC1/160218	QC2/160218
								Date	13/02/2018	15/02/2018	15/02/2018	16/04/2018	16/04/2018	16/02/2018	16/02/2018	16/02/2018
								Sample Type	Normal	Normal	Normal	Nomal	Normal	Normal	Field_D	Field_D
								Lab Report Number	584938	585222 / EM1803079	585222 / EM1803079	594417 / EM1806339	594417 / EM1806339	585329 / EM1803154	585329 / EM1803154	EM1803154
			ANZECC 2000 -			PFAS NEMP 2018		NHMRC Recreational								
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008		i.	i .	i.	i .	i .	ii.	i .
SVOCs																
1,2,3,4-tetrachlorobenzene	μg/L	0.1							-	-	-	-	-	<5	<5	-
1,2,3,5-Tetrachlorobenzene	μg/L	0.1							-	-	-	-	-	<5	<5	-
1,2,4,5-tetrachlorobenzene	μg/L	0.1							-	-	-	-	-	<5	<5	-
1,3,5-Trichlorobenzene	μg/L	0.1							-	-	-	-	-	<5	<5	-
1-Chloronaphthalene	μg/L	5							-	-	-	-	-	<5	<5	-
1-naphthylamine	μg/L	2							-	-	-	-	-	<5	<5	<2
2-(acetylamino) fluorene	μg/L	2							-	-	-	-	-	-	-	<2
2-naphthylamine	μg/L	5								-	-	-	-	<5	<5	
2-nitroaniline	μg/L	4								-	-	-	-	<5	<5	<4
3,3-Dichlorobenzidine	µg/L	2							-			-		<5	<5	<2
3-nitroaniline	μg/L	4												-	~	<4
4-(dimethylamino) azobenzene	µg/L	2												-6	-6	<2
4,6-Dinitro-2-methylphenol	µg/L	30									-	-	-	<30	<30	
											-					
4-bromophenyl phenyl ether	µg/L	2							-	-	-	-	-	<5	<5	<2
4-chloroaniline	μg/L	2							-	-	-	-	-	-	-	<2
4-chlorophenyl phenyl ether	μg/L	2							-	-	-	-	-	<5	<5	<2
4-nitroaniline	μg/L	2							-	-	-	-	-	-	-	<2
4-Nitroquinoline-N-oxide	μg/L	2							-	-	-	-		-	-	<2
5-nitro-o-toluidine	μg/L	2												-		<2
7,12-dimethylbenz(a)anthracene	μg/L	2							-	-	-	-	-	<5	<5	<2
Aniline	μg/L	2		250	8				-	-	-	-	-	<5	<5	<2
Azobenzene	μg/L	2							-	-	-	-	-	-	-	<2
Benzyl chloride	μg/L	1							-	-	-	-	-	<5	<5	-
Bis(2-chloroethoxy) methane	μg/L	2							-	-	-	-	-	<5	<5	<2
Bis(2-chloroethyl)ether	μg/L	2								-	-	-	-			<2
Bis(2-chloroisopropyl) ether	µg/L	5												<5	<5	
Carbazole	µg/L	2							-		-	-	-			<2
Chlorobenzilate		2							-		-	-		-	-	<2
Dibenz(a.j)acridine	µg/L	5							-	-	-	-	-	<5	<5	
	µg/L								-	-	-	-	-			-
Diphenylamine	μg/L	5							-	-	-	-	-	<5	<5	-
Hexachlorocyclopentadiene	μg/L	0.1							-	-	-	-	-	<5	<5	<10
Hexachloroethane	μg/L	0.1		360	290				-	-	-	-	-	<5	<5	<2
Hexachloropropene	μg/L	2							-	-	-	-	-	-	-	<2
Isophorone	μg/L	2							-	-	-	-	-	-	-	<2
Methapyrilene	μg/L	2							-	-	-	-	-	-	-	<2
N-nitrosodiethylamine	μg/L	2							-	-	-	-	-	-	-	<2
N-nitrosodi-n-butylamine	μg/L	2							-	-	-	-	-	<5	<5	<2
N-nitrosodi-n-propylamine	μg/L	2							-	-	-	-	-	<5	<5	<2
N-Nitrosomethylethylamine	μg/L	2							-	-	-	-	-	-	-	<2
N-nitrosomorpholine	μg/L	2								-	-	-	-	-	-	<2
N-nitrosopiperidine	μg/L	2								-	-	-	-	<5	<5	<2
N-nitrosopyrrolidine	µg/L	4												-	~	<4
Pentachlorobenzene	µg/L	0.1												<5	<5	<2
Phenacetin	µg/L	2														<2
Trifluralin	µg/L	5		4.4	2.6			900	· ·		+ -			<5	<5	
	ру/с	5		4.4	2.0			900	-	-	1 -	-	-	<5	<>	1 -
OC Peetloides										ļ			1			1
Organochlorine pesticides EPAVic	μg/L	1								-	-	-	-	<1	<1	-
Other organochlorine pesticides EPAVic	µg/L	1							-	-	-	-	-	<1	<1	-
4,4-DDE	μg/L	0.1							-	-	-	-	-	<0.1	<0.1	<0.5
a-BHC	μg/L	0.1							-	-	-	-	-	<0.1	<0.1	< 0.5
Aldrin	μg/L	0.1							-	-	-	-	-	<0.1	<0.1	< 0.5
Aldrin + Dieldrin	μg/L	0.1						3	-	-	-	-	-	<0.1	<0.1	<0.5
b-BHC	μg/L	0.1							-		-	-		<0.1	<0.1	<0.5
Chlordane	μg/L	0.5		0.08	0.03				-	-	-	-	-	<1	<1	<0.5
Chlordane (cis)	μg/L	0.5							-	-	-	-	-	-	-	< 0.5
Chlordane (trans)	μg/L	0.5							-	-	-	-	-	-	-	< 0.5
d-BHC	μg/L	0.1							-	-	-	-	-	<0.1	<0.1	< 0.5
4,4 DDD	μg/L	0.1								-	-	-	-	<0.1	<0.1	< 0.5
4,4 DDT	μg/L	0.1		0.01	0.006			90	-	-	-	-	-	<0.1	<0.1	<2.0
DDT+DDE+DDD - Lab Calc	µg/L	0.1										-	-	<0.1	<0.1	<0.5
Dieldrin	µg/L	0.1									1	-	1	<0.1	<0.1	<0.5
Endosulfan I	μg/L	0.1									+ -			<0.1	<0.1	<0.5
Endosulfan II									-	-	1	-	-		<0.1	
Endosulfan II Endosulfan Sulfate	µg/L	0.1									-			<0.1		<0.5
	µg/L	0.1							-	-	-	-	-	<0.1	<0.1	<0.5
Endrin	μg/L	0.1		0.02	0.01					-	-	-	-	<0.1	<0.1	<0.5
Endrin aldehyde	μg/L	0.1							-	-	-	-	-	<0.1	<0.1	<0.5
Endrin ketone	μg/L	0.1							-	-	-	-	-	<0.1	<0.1	< 0.5
g-BHC (Lindane)	μg/L	0.1		0.2	0.07			100	-	-	<u> </u>	-	<u> </u>	<0.1	<0.1	<0.5
Heptachlor	μg/L	0.1		0.09	0.01			3	-	-		-		<0.1	<0.1	<0.5
Heptachlor epoxide	μg/L	0.1								-	-	-	-	<0.1	<0.1	< 0.5
Hexachlorobenzene	μg/L	0.1							-	-	-	-	-	<0.1	<0.1	< 0.5
44 at 11								0000		1			1		1	



								Location Code	NEL-BH128	NEL-BH140	NEL-ENV-BH006	NEL-ENV-BH008	NEL-ENV-BH009	NEL-ENV-BH009	NEL-ENV-BH014
								Field ID	NEL-BH128/080318	NEL-BH140/180418	NEL-ENV-BH006_27062018	NEL-ENV-BH008_08052018	NEL-ENV-BH009_27062018	NEL-ENV-BH009_19072018	ENV-BH014 / 130718
								Date	8/03/2018	18/04/2018	27/06/2018	8/05/2018	27/06/2018	19/07/2018	13/07/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Nomal
								Lab Report Number	588501	594938	EM1810368	EM1807515	EM1810368	EM1811589	607533 / EM1811208
			ANZECC 2000 -	ANZECC 2000	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational							-
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008							
SVOCs															
1,2,3,4-tetrachlorobenzene	μg/L	0.1							<0.1	-	-	-	-	-	<5
1,2,3,5-Tetrachlorobenzene	μg/L	0.1							<0.1	-	-	-	-	-	<5
1,2,4,5-tetrachlorobenzene	μg/L	0.1							<0.1	-	-	-	-	-	<5
1,3,5-Trichlorobenzene	μg/L	0.1							<0.1	-	-	-	-	-	<5
1-Chloronaphthalene	μg/L	5							<5	-	-	-	-	-	<5
1-naphthylamine	μg/L	2							<5	-	<2	<2	<2	-	<5
2-(acetylamino) fluorene	μg/L	2							-	-	<2	<2	<2	-	-
2-naphthylamine	µg/L	5							<5	-	-	-	-	-	<5
2-nitroaniline	µg/L	4							<5	-	<4	<4	<4	-	<5
3,3-Dichlorobenzidine	µg/L	2							<5	-	<2	<2	<2	-	<5
3-nitroaniline	µg/L	4							-	-	<4	<4	<4	-	-
4-(dimethylamino) azobenzene	μg/L	2							<5	-	<2	<2	<2	-	<5
4,6-Dinitro-2-methylphenol	μg/L	30							<30	-	-	-	-	-	<30
4-bromophenyl phenyl ether	µg/L	2							<5	-	<2	<2	<2	-	<5
4-chloroaniline	µg/L	2							-	-	<2	<2	<2	-	-
4-chlorophenyl phenyl ether	µg/L	2							<5	-	<2	<2	<2	-	<5
4-nitroaniline	µg/L	2							-	-	<2	<2	<2	-	-
4-Nitroquinoline-N-oxide	µg/L	2							-	-	<2	<2	<2	-	-
5-nitro-o-toluidine	µg/L	2							-	-	<2	<2	<2	-	-
7,12-dimethylbenz(a)anthracene Aniline	µg/L	2		250					<5	-	<2	<2	<2	-	<5
Aniline Azobenzene	μg/L μg/L	2		250	8				<5	-	<2	<2	<2	-	<5
Azobenzene Benzyl chloride		2								-	<2	<2	<2	-	
Bis(2-chloroethoxy) methane	μg/L μg/L	2							<1		e2	<2	<2	<u> </u>	<5
Bis(2-chloroethyl)ether	µg/L µg/L	2							<5	-	<2	<2	<2		
Bis(2-chloroisopropyl) ether	µg/L	5							<5	-	~~	~2	~2	-	<5
Carbazole	µg/L	2							- ~	-	<2	<2	<2		- ~
Chlorobenzilate	µg/L	2								_	<2	<2	<2	-	-
Dibenz(a.j)acridine	µg/L	5							<5			-	-	-	<5
Diphenylamine	µg/L	5							<5				_	_	<5
Hexachlorocyclopentadiene	µg/L	0.1							<0.1	-	<10	<10	<10	-	<5
Hexachloroethane	μg/L	0.1		360	290				<0.1	-	<2	<2	<2	-	<5
Hexachloropropene	μg/L	2								-	<2	<2	<2	-	-
Isophorone	μg/L	2								-	<2	<2	<2	-	-
Methapyrilene	μg/L	2							-	-	<2	<2	<2	-	-
N-nitrosodiethylamine	μg/L	2							-	-	<2	<2	<2	-	-
N-nitrosodi-n-butylamine	µg/L	2							<5	-	<2	<2	<2	-	<5
N-nitrosodi-n-propylamine	µg/L	2							<5	-	<2	<2	<2	-	<5
N-Nitrosomethylethylamine	μg/L	2							-	-	<2	<2	<2	-	-
N-nitrosomorpholine	μg/L	2							-	-	<2	<2	<2	-	-
N-nitrosopiperidine	µg/L	2							<5	-	<2	<2	<2	-	<5
N-nitrosopyrrolidine Pentachlorobenzene	µg/L	4							<0.1	-				-	-
	µg/L	0.1							<u.1< td=""><td>-</td><td><2</td><td><2</td><td><2</td><td>-</td><td><5</td></u.1<>	-	<2	<2	<2	-	<5
Phenacetin Trifluralin	µg/L	2		4.4	2.6			900	<5		<2	~	<2	-	<5
OC Pesticides	µg/L	5		4.4	2.0			900	<5	-	-	-	-	-	<>
Organochlorine pesticides EPAVic	µg/L	1							<1		_				e1
Other organochlorine pesticides EPAVic	µg/L	4							21	1 :	1 - 1	1 - 1	1 - 1	1 - 1	e1
4.4-DDE	µg/L	0.1							<0.1	<u> </u>	<0.5	<0.5	<0.5	-	<0.1
a-BHC	µg/L	0.1							<0.1	-	<0.5	<0.5	<0.5	-	<0.1
Aldrin	µg/L	0.1							<0.1	-	<0.5	<0.5	<0.5	-	<0.1
Aldrin + Dieldrin	µg/L	0.1						3	<0.1	-	<0.5	<0.5	<0.5	-	<0.1
b-BHC	µg/L	0.1							<0.1	-	<0.5	<0.5	<0.5	-	<0.1
Chlordane	µg/L	0.5		0.08	0.03				<1	-	<0.5	<0.5	<0.5	-	<1
Chlordane (cis)	μg/L	0.5							-	-	<0.5	<0.5	<0.5	-	-
Chlordane (trans)	μg/L	0.5							-	-	<0.5	<0.5	<0.5	-	-
d-BHC	μg/L	0.1							<0.1	-	<0.5	< 0.5	< 0.5	-	<0.1
4,4 DDD	μg/L	0.1							<0.1	-	<0.5	<0.5	<0.5	-	<0.1
4,4 DDT	µg/L	0.1		0.01	0.006			90	<0.1	-	<2.0	<2.0	<2.0	-	<0.1
DDT+DDE+DDD - Lab Calc	μg/L	0.1							<0.1	-	<0.5	<0.5	<0.5	-	<0.1
Dieldrin	μg/L	0.1							<0.1	-	<0.5	<0.5	<0.5	-	<0.1
Endosulfan I	µg/L	0.1							<0.1	-	<0.5	<0.5	<0.5	-	<0.1
Endosulfan II Endosulfan Sulfate	µg/L	0.1							<0.1	-	<0.5	<0.5	<0.5	-	<0.1
Endosultan Sulfate Endrin	µg/L	0.1		0.02	0.01				<0.1	-	<0.5	<0.5	<0.5	-	<0.1
Endrin Endrin aldehyde	μg/L μg/L	0.1		0.02	0.01				<0.1 <0.1	-	<0.5 <0.5	<0.5 <0.5	<0.5	-	<0.1
Endrin aldenyde Endrin ketone	µg/L µg/L	0.1							<0.1	-	<0.5	<0.5	<0.5	-	<0.1
g-BHC (Lindane)	µg/L µg/L	0.1		0.2	0.07			100	<0.1		<0.5	<0.5	<0.5		<0.1
Heptachlor	µg/L	0.1		0.09	0.01			3	<0.1	-	<0.5	<0.5	<0.5	_	<0.1
Heptachlor epoxide	µg/L	0.1							<0.1	-	<0.5	<0.5	<0.5	-	<0.1
Hexachlorobenzene	µg/L	0.1							<0.1	-	<0.5	<0.5	<0.5	-	<0.1
Methoxychlor	µg/L	0.1						3000	<0.1	-	<2.0	<2.0	<2.0	-	<0.1



NEL-ENV-BH024 NEL-ENV-BH024 NEL-ENV-BH024

								Fleid ID	NEL-ENV-BH022	NEL-ENV-BH024_08052018	NEL-ENV-BH024_19072018	QC5000_08052018	QC6000_08052018	NEL-ENV-BH025_09052018	NEL-ENV-BH032_27062018	NEL-PB01A
								Date	27/09/2018	8/05/2018	19/07/2018	8/05/2018	8/05/2018	9/05/2018	27/06/2018	6/07/2018
								Sample Type	Normal	Normal	Normal	Field_D	Field_D	Normal	Normal	Normal
								Lab Report Number	EM1815577	EM1807515	EM1811589	EM1807515	EM1807515	EM1807669	EM1810368	607533
		$\overline{}$	ANZECC 2000 -	ANZECC 2000	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational								
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008								
BVOCs	Unit	Luc	Stock watering	1 44 92 %	1 VV 0076	i resriwater 5576	Long-term ringger values	Guidelines 2000			1	İ	1	1		1
1,2,3,4-tetrachlorobenzene	μg/L	0.1													_	
1,2,3,5-Tetrachlorobenzene	µg/L	0.1								-	-	-	-	-	-	-
1,2,5,5-1etrachlorobenzene										-	-	-		-		-
	μg/L	0.1								-	-	-	-	-	-	
1,3,5-Trichlorobenzene	μg/L	0.1							-	-	-	-	-	-	-	-
1-Chloronaphthalene	μg/L	5							-	-	-	-	-	-	-	-
1-naphthylamine	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
2-(acetylamino) fluorene	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
2-naphthylamine	μg/L	5							-	-	-	-	-	-	-	-
2-nitroaniline	μg/L	4							<4	<4	-	<4	<4	<4	<4	-
3,3-Dichlorobenzidine	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
3-nitroaniline	μg/L	4							<4	<4	-	<4	<4	<4	<4	-
4-(dimethylamino) azobenzene	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
4,6-Dinitro-2-methylphenol	μg/L	30							-	-	-	-	-	-	-	-
4-bromophenyl phenyl ether	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
4-chloroaniline	μg/L	2				_			<2	< > < > < > < > < > < > < > < > < > < >	_	<2	<2	<2	<2	
4-chlorophenyl phenyl ether	µg/L	2							<2	<2	 	<2	<2	<2	<2	+
4-nitroaniline	µg/L	2							<2	<2	1	<2	<2	<2	<2	1
4-Nitroquinoline-N-oxide	µg/L	2							<2	<2	1	<2	<2	<2	<2	
5-nitro-o-toluidine	µg/L								0	<2	<u> </u>	<2	<2	<2	<2	
7,12-dimethylbenz(a)anthracene		2								<2	-	<2	<2	<2		+
	µg/L	2		250					<2	<2	1 -	<2 -2			<2	-
Aniline	μg/L	2		250	8				<2	<2	-	<2	<2	<2	<2	-
Azobenzene	µg/L	2							<2	<2	-	<2	<2	<2	<2	-
Benzyl chloride	μg/L	- 1							-	-	-	-	-	1 -	-	-
Bis(2-chloroethoxy) methane	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
Bis(2-chloroethyl)ether	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
Bis(2-chloroisopropyl) ether	μg/L	5							-	-	-	-	-	-	-	-
Carbazole	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
Chlorobenzilate	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
Dibenz(a.j)acridine	μg/L	5							-	-	-			-	-	-
Diphenylamine	µg/L	5							-	-	-	-	-	-	_	-
Hexachlorocyclopentadiene	μg/L	0.1							<10	<10	-	<10	<10	<10	<10	
Hexachloroethane	μg/L	0.1		360	290				<2	<2	-	<2	<2	<2	<2	-
Hexachloropropene	µg/L	2							<2	< > < > < > < > < > < > < > < > < > < >	_	<2	<2	<2	<2	-
Isophorone	µg/L	2							<2	<2		<2	<2	<2	<2	-
Methapyrilene	µg/L	2							<2	<2		<2	<2	<2	<2	
N-nitrosodiethylamine	µg/L	2							- 2			<2	<2	<2	<2	-
N-nitrosodi-n-butylamine	µg/L	2							<2	<2	-	<2	<2	<2	<2	-
											-					-
N-nitrosodi-n-propylamine	µg/L	2							<2	<2	-	<2	<2	<2	<2	-
N-Nitrosomethylethylamine	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
N-nitrosomorpholine	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
N-nitrosopiperidine	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
N-nitrosopyrrolidine	μg/L	4							<4	<4	-	<4	<4	<4	<4	-
Pentachlorobenzene	μg/L	0.1							<2	<2	-	<2	<2	<2	<2	-
Phenacetin	µg/L	2							<2	<2	-	<2	<2	<2	<2	-
Trifluralin	μg/L	5		4.4	2.6			900	-	-	-	-	-	-	-	-
C Pesticides																
Organochlorine pesticides EPAVic	μg/L	- 1								-	-	-	-	-	-	-
Other organochlorine pesticides EPAVic	µg/L	1								-	-	-	-	-	-	-
4,4-DDE	µg/L	0.1							<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-
a-BHC	µg/L	0.1							<0.5	sn 5	 	<0.5	<0.5	<0.5	<0.5	+
Aldrin	µg/L	0.1							<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	+
Aldrin + Dieldrin	µg/L	0.1						3	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5	1
b-BHC	µg/L	0.1						, ,	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	
Chlordane		0.1		0.08	0.03					<0.5	· ·	<0.5	<0.5		<0.5	+
Chlordane Chlordane (cis)	µg/L			0.08	0.03				<0.5		1 -			<0.5		-
	μg/L	0.5							<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-
Chlordane (trans)	μg/L	0.5							<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-
	μg/L	0.1							<0.5	< 0.5	-		<0.5	<0.5	<0.5	-
1,4 DDD	μg/L	0.1							<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-
I,4 DDT	μg/L	0.1		0.01	0.006			90	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	-
DDT+DDE+DDD - Lab Calc	μg/L	0.1							<0.5	<0.5	-	<0.5	<0.5	< 0.5	<0.5	-
Dieldrin	μg/L	0.1							<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-
Endosulfan I	μg/L	0.1							< 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-
Endosulfan II	µg/L	0.1							<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	-
Endosulfan Sulfate	µg/L	0.1							<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-
Endrin	µg/L	0.1		0.02	0.01				<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-
Endrin aldehyde	µg/L	0.1							<0.5	<0.5	<u> </u>	<0.5	<0.5	<0.5	<0.5	+
Endrin laderiyde Endrin ketone	µg/L	0.1							<0.5	<0.5	· ·	<0.5	<0.5	<0.5	<0.5	+
a BUC (Lindono)		0.1		0.2	0.07			100		<0.5	-	<0.5	<0.5		<0.5	-
g-BHC (Lindane) Heptachlor	μg/L			0.2	0.07			100	<0.5		-			<0.5		
	μg/L	0.1		0.09	0.01			3	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-
Heptachlor epoxide	μg/L	0.1							< 0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-
Hexachlorobenzene	μg/L	0.1							<0.5	< 0.5	-	<0.5	<0.5	<0.5	<0.5	-
Methoxychlor	μg/L	0.1						3000	<2.0	<2.0	<u> </u>	<2.0	<2.0	<2.0	<2.0	-
Toxaphene	μg/L	10		0.2	0.1				-	-	-	-	-	-	-	-



								Location Code	NEL-BH004	NEL-BH004A	NEL-BH031	NEL-BH031	NEL-BH037	NEL-BH038	NEL-BH039	NEL-BH039	NEL-BH039
								Field ID	NEL-BH004 D/150218	NEL-BH004 S/150218	NEL-BH031/080318	NEL-BH031 / 130218	NEL-BH037 / 160418	NEL-BH038 / 140218	NEL-BH039/180418	QC1/180418	QC2 / 180418
								Date	15/02/2018	15/02/2018	8/03/2018	13/02/2018	16/04/2018	14/02/2018	18/04/2018	18/04/2018	18/04/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Field_D
								cample Type									
.		_			_			Lab Report Number	585222 / EM1803079	585222 / EM1803079	588501	584938	594417 / EM1806339	584987 / EM1802989	594938 / EM1806473	594938 / EM1806473	EM1806473
i e							ANZECC 2000 Irrigation -	NHMRC Recreational									
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008									
OP Pesticides																	
Tokuthion	μg/L	2							-	-	<2	-	-	-	<2	<2	-
Azinphos methyl	μg/L	0.5		0.02	0.01			300		-	<2	-	-	-	<2	<2	< 0.5
Bolstar (Sulprofos)	µg/L	2						100			<2	-			<2	<2	
Bromophos-ethyl	μg/L	0.5						100			-	-		-			<0.5
Carbophenothion	µg/L	0.5							-	-	-	-	-	-	-	-	<0.5
Chlorfenvinohos	µg/L	0.5							-	-		-	-	-			
											<2		-		<2	<2	<0.5
Chlorpyrifos	μg/L	0.5		0.01	0.00004			100	-		<20	-		-	<20	<20	<0.5
Chlorpyrifos-methyl	μg/L	0.5							-	-	<2	-	-	-	<2	<2	<0.5
Coumaphos	µg/L	20							-	-	<20	-	-	-	<20	<20	-
Demeton-O	μg/L	2							-	-	<2	-	-	-	<2	<2	-
Demeton-S	μg/L	20								-	<20	-	-	-	<20	<20	-
Demeton-S-methyl	µg/L	0.5											-	-		-	<0.5
Diazinon	µg/L	0.5		0.01	0.00003			40	-	-	<2	-	-	-	<2	<2	<0.5
Dichloryos	µg/L	0.5		0.01	0.00000			50	-	-		-	-	-		<2	<0.5
Dimethoate				0.16	0.1						<2				<2		
	μg/L	0.5		0.15	0.1			70	-	-	<2	-	-		<2	<2	<0.5
Disulfoton	μg/L	2						40	-	-	<2	-	-	-	<2	<2	-
EPN	μg/L	2							-	-	<2	-	-	-	<2	<2	-
Ethion	μg/L	0.5						40	-	-	<2	-	-	-	<2	<2	<0.5
Ethoprop	μg/L	2						10	-	-	<2	-	-	-	<2	<2	-
Fenamiphos	μg/L	0.5						5		-	-	-	-	-	-	-	< 0.5
Fenitrothion	μg/L	2		0.2	0.1			70			<2		-	-	<2	<2	
Fensulfothion	µg/L	2						100	-	-	<2	-		-	<2	<2	-
Fenthion	µg/L	0.5						70	-	-	<2	-	-	-	<2	<2	<0.5
Malathion	µg/L			0.05	0.002			700	-		<2				<2	<2	<0.5
		0.5		0.05	0.002			700		-		-	-	-			
Merphos	μg/L	2							-	-	<2	-	-	-	<2	<2	-
Methyl parathion	μg/L	2						7	-	-	<2	-	-	-	<2	<2	<2.0
Mevinphos (Phosdrin)	μg/L	2						50	-	-	<2	-	-	-	<2	<2	-
Monocrotophos	μg/L	2						20		-	<2	-	-	-	<2	<2	<2.0
Naled (Dibrom)	µg/L	2									<2		-	-	<2	<2	
Omethoate	μg/L	2						10	-	-	<2	-		-	<2	<2	
Parathion	µg/L	2		0.004	0.0007			200	-	-	<2	-			<2	<2	<2.0
Phorate		2		0.004	0.0007			200	-	-	<2	-	-		<2	<2	-2.0
	μg/L							900									
Pirimiphos-methyl	μg/L	20							-	-	<20	-	-	-	<20	<20	-
Pirimphos-ethyl	μg/L	0.5						5	-	-	-	-	-	-	-	-	< 0.5
Prothiofos	μg/L	0.5							-	-	-	-	-	-	-	-	< 0.5
Pyrazophos	μg/L	2						200		-	<2	-	-	-	<2	<2	-
Ronnel	μg/L	2							-	-	<2	-		-	<2	<2	-
Terbufos	µg/L	2						9			<2	-		-	<2	<2	
Trichloronate	μg/L	2									<2			-	<2	<2	-
Tetrachloryinphos	µg/L	2						1000	-	-	<2	_			<2	<2	_
MAH	pg/L							1000	-	-	~2		-	-	~~	~~	-
		+								1	1	1	1	1	—		
1,2,4-trimethylbenzene	μg/L	1							-	-	-	-	-	-	<1	<1	<5
1,3,5-trimethylbenzene	μg/L	1							-	-	-	-	-	-	<1	<1	<5
Isopropylbenzene	μg/L	1							-	-	<1	-	-	-	<1	<1	<5
Styrene	µg/L	- 1						300	-	-	<1	-	-	-	<1	<1	<5
Total MAH□	μg/L	3							-	-	<3	-	-	-	<3	<3	-
Halogenated Hydrocarbons		1								1					i		
Bromomethane	μg/L	1						10	-	-	-	-	-	-	<1	<1	<50
Dichlorodifluoromethane	µg/L	1									1		T .		<1	<1	<50
PCBa	pgrL	+ '							-	-	-	+ -	 	-			~50
		+								1	1	1	1	1	—		1
Arochlor 1016	μg/L	1								-	<1		-	-	<1	<1	-
Arochlor 1221	μg/L	1							-	-	<1	-	-	-	<1	<1	-
Arochlor 1232	µg/L	1							-	-	<1	-	-	-	<1	<1	-
Arochlor 1242	μg/L	- 1		0.6	0.3				-	-	<1	-	-	-	<1	<1	-
Arochlor 1248	μg/L	1									<1			-	<1	<1	-
Arochlor 1254	μg/L	1		0.03	0.01						<1			-	<1	<1	-
Arochlor 1260	µg/L	1								1	<1		T .		<1	<1	
PCBs (Total)		+ +							-	-	<1	1	1 -	+	<1	<1	<1
PGDS (10tal)	μg/L	1							-	-	<1	-	-	-	<1	<1	<1
																	1
Herbicides																	
	μg/L μg/L	100						700	-	-	<100 <5	-	-	-	<100 <5	<100 <5	<2



								Location Code	NEL-BH040	NEL-BH040A	NEL-BH044	NEL-BH059	NEL-BH060	NEL-BH062	NEL-BH062	NEL-BH062A	NEL-BH062B	NEL-BH062B
								Fleid ID	NEL-BH040 / 120218	NEL-BH040 A / 120218	NEL-BH044 / 130218	NEL-BH059 / 130218	NEL-BH060 / 140218	NEL-BH062/080318	NEL-BH062 / 140218	NEL-BH062 A / 160218	NEL-BH062B/080318	NEL-BH062 B / 140218
								Date	12/02/2018	12/02/2018	13/02/2018	13/02/2018	14/02/2018	8/03/2018	14/02/2018	16/02/2018	8/03/2018	14/02/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
				_	_			Lab Report Number	584938	584938	584938	584938	584987 / EM1802989	588501	584987 / EM1802989	585329 / EM1802989	588501	584987 / EM1802989
			ANZECC 2000 -				ANZECC 2000 Irrigation -	NHMRC Recreational										
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008										
OP Pesticides																		
Tokuthion	μg/L	2							-	-	-	-	-	<2	-	<2	<2	-
Azinphos methyl	μg/L	0.5		0.02	0.01			300		-	-	-	_	<	-	<2	<2	-
Bolstar (Sulprofos)	µg/L	2		0.02				100	-	-	+		+	<2	+	<2	<2	
Bromophos-ethyl		0.5				_		100	-	-	-	-	-	-	-		-	-
Carbophenothion	μg/L							100		_	_	_	_		_			
	μg/L	0.5							-	-	-	-	-		-	-	-	-
Chlorfenvinphos	μg/L	0.5							-	-	-	-	-	<2	-	<2	<2	-
Chlorpyrifos	μg/L	0.5		0.01	0.00004			100	-	-	-	-	-	<20	-	<20	<20	-
Chlorpyrifos-methyl	μg/L	0.5							-	-	-	-	-	<2	-	<2	<2	-
Coumaphos	μg/L	20							-	-	-	-	-	<20	-	<20	<20	-
Demeton-O	μg/L	2							-		-	-	-	<2		<2	<2	-
Demeton-S	μg/L	20							-	-	-	-	-	<20	-	<20	<20	-
Demeton-S-methyl										_								
	μg/L	0.5			0.00000				-	-	-	-	-	-	-	-	-	-
Diazinon	μg/L	0.5		0.01	0.00003			40	-	-	-	-	-	<2	-	<2	<2	-
Dichlorvos	μg/L	0.5						50	-	-	-	-	-	<2	-	<2	<2	-
Dimethoate	μg/L	0.5		0.15	0.1			70	-	-	-	-	-	<2	-	<2	<2	-
Disulfoton	μg/L	2						40	-	-	-	-	-	<2	-	<2	<2	-
EPN	µg/L	2								-	-	-	-	<2	-	<2	<2	-
Ethion	μg/L	0.5						40	-	-	-	-	-	<2	-	<2	<2	-
Ethoprop	µg/L	2						10	-	-	-	-	-	<2	-	<2	<2	-
Fenamiphos	µg/L	0.5						5	-	-	-	-	-		-	2		-
Fenitrothion	μg/L	2		0.2	0.1			70	-	-	-	-	-	<2	-	<2	<2	-
Fensulfothion	μg/L	2						100	-	-	-	-	-	<2	-	<2	<2	-
Fenthion	μg/L	0.5						70	-	-	-	-	-	<2	-	<2	<2	-
Malathion	μg/L	0.5		0.05	0.002			700	-	-	-	-	-	<2	-	<2	<2	-
Merphos	μg/L	2							-	-	-	-	-	<2	-	<2	<2	-
Methyl parathion	μg/L	2						7	-	-	-	-	-	<2	-	<2	<2	-
Mevinphos (Phosdrin)	μg/L	2						50	-	-	-	-	-	<2	-	<2	<2	-
Monocratophos		2				_		20	-	-	-	_	-	<2	-	<2	<2	-
	μg/L							20										
Naled (Dibrom)	μg/L	2							-	-	-	-	-	<2	-	<2	<2	-
Omethoate	μg/L	2						10	-	-	-	-	-	<2	-	<2	<2	-
Parathion	μg/L	2		0.004	0.0007			200	-	-	-	-	-	<2	-	<2	<2	-
Phorate	μg/L	2							-	-	-	-	-	<2	-	<2	<2	-
Pirimiphos-methyl	μg/L	20						900	-	-	-	-	-	<20	-	<20	<20	-
Pirimphos-ethyl	μg/L	0.5						5	-		-	-	-	-	-	-	+	_
Prothiofos	μg/L	0.5							-	-	-	-	-	-	-	-	-	-
Pyrazophos	µg/L	2						200	-				-	<2		<2	<2	
								200	-						-			-
Ronnel	μg/L	2							-	-				<2	-	<2	<2	-
Terbufos	µg/L	2						9	-	-	-	-	-	<2	-	<2	<2	-
Trichloronate	μg/L	2							-	-	-	-	-	<2	-	<2	<2	-
Tetrachlorvinphos	μg/L	2						1000	-	-	-	-	-	<2	-	<2	<2	-
MAH											1							
1,2,4-trimethylbenzene	μg/L	- 1								-	-		-	-	-	<1	-	-
1,3,5-trimethylbenzene	µg/L	1								T -	+		+	1 .	-	<1	 	1 -
Isopropylbenzene	µg/L	1							-	-	-	-	-	<1	-	<1	<1	+
Styrene	μg/L μg/L							300		_	_	_	_		_			+
		1						300	-	-	-	-	-	<1	-	<1	<1	-
Total MAH□	μg/L	3							-	-	-	-	-	⋖	-	9	<3	-
Halogenated Hydrocarbons															1			
Bromomethane	μg/L	- 1						10	-	-	-	-	-	-	-	<1	-	-
Dichlorodifluoromethane	μg/L	- 1								-	-		-	-	-	<1	-	-
PCBs	- 1	1								+	+	\neg	+	†	1			1
Arochlor 1016	μg/L	1							<u> </u>	+	+	+	+	<1	+	<1	<1	+
Arochlor 1221		1							<u> </u>	+	+	+	+		+			
	μg/L	_							-	-	-	-	-	<1	-	<1	<1	-
Arochlor 1232	μg/L	1							-	-	-	-	-	<1	-	<1	<1	-
Arochlor 1242	μg/L	1		0.6	0.3				-	-	-	-	-	<1	-	<1	<1	-
Arochlor 1248	μg/L	- 1							-	-	-	-	-	<1	-	<1	<1	-
Arochlor 1254	μg/L	- 1		0.03	0.01				-	-	-	-	-	<1	-	<1	<1	-
Arochlor 1260	μg/L	1							-	-	-	-	-	<1		<1	<1	-
PCBs (Total)	μg/L	1								+	+	+	+	<1	-	<1	<1	_
Herbicides	P9'-	+-								+	+	+	+	 	+	-	+	+
									-	-	-	-	-	<100	-	<100	<100	-
Dinoseb Pronamide	μg/L μg/L	100						700	-	-	-		-	<5	-	<5	<5	-



Unit EQL Stock Watering FW 95%	0000 ANZECC 2000 FW 99% 0.01 0.00004		ANZECC 2000 Irrigation - Long-term Trigger Values	Location Code Fleid ID Date Semple Type Lab Report Number NHIRIC Recreational Guidelines 2008 300 100 100 100	NEL-BH064 / 140218 14/02/2018 14/02/2018 Normal 584987 / EM1802989 	NEL-8H070 NEL-8H070 / 120218 12/02/2018 12/02/2018 Normal 584938	NEL-BH071 NEL-BH071/170418 17/04/2018 Normal S94757 / EM1806408	NEL-BH072 / NEL-BH072 / 120218 12/02/2018 12/02/2018 12/02/2018 Normal 584938	NEL-BH076 NEL-BH076/170418 17/04/2018 Normal S94757 / EM1806408	NEL-BH076A NEL-BH076A/170418 17/04/2018 Normal 594757 / EM1806408	NEL-BH078 NEL-BH078/170418 17/04/2018 Normal 594757 / EM1806408
Unit EQL Stock Watering FW 95%	0.01 0.0004 0.00003			Dete Sample Type Lab Report Number NHMRC Recreational Guidelines 2008 300 100 100	14/02/2018 Normal 584987 / EM1802989	12/02/2018 Normal 584938	17/04/2018 Normal 594757 / EM1806408	12/02/2018 Normal 584938	17/04/2018 Normal 594757 / EM1806408	17/04/2018 Normal 594757 / EM1806408	17/04/2018 Normal 594757 / EM1806408
Unit EQL Stock Watering FW 95%	0.01 0.0004 0.00003			Sample Type Lab Report Number NHMRC Recreational Guidelines 2008 300 100 100	Normal 584987 / EM1802989	Normal 584938	Normal 594757 / EM1806408 - - -	Normal 584938	Normal 594757 / EM1806408	Normal 594757 / EM1806408	Normal 594757 / EM1806408
Unit EQL Stock Watering PW 95%	0.01 0.0004 0.00003			Lab Report Number NHMRC Recreational Guidelines 2008 300 100 100	584987 / EM1802989 		594757 / EM1806408	- - - - -	594757 / EM1806408	594757 / EM1806408	594757 / EM1806408
Unit EQL Stock Watering PW 95%	0.01 0.0004 0.00003			NHMRC Recreational Guidelines 2008 300 100 100		- - - -	- - -	- - - -			
Unit EOL Stock Watering FW 95%	0.01 0.0004 0.00003			300 100 100		-	-	-	-	-	-
OP Petidides	0.01	Freshwater 99%	Long-term Trigger Values	300 100 100		-	-	-	-	-	-
Tokuthon	0.00004			100		-	-	-	-	-	-
Azinphos methyl	0.00004			100		-	-	-	-	-	-
Azinphos methyl by 0.5 0.02 Bostatar (Suprotos) 1991. 2 2 Bromophos-ethyl 1991. 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.	0.00004			100		-	-	-	-	-	
Bolate Guyerobo Ug/L	0.00004			100	-	-		-			
Bromoptes ethyl	0.00003			100	-	-	-		-		
Carbophendition Ug/L 0.5 Cholorphyribe Ug/L 0.5 0.01 Chlorpyribe Ug/L 0.5 0.01 Chlorpyribe Ug/L 0.5 0.01 Counsphos Ug/L 20 0 Demotor-O Ug/L 2 0 Demotor-S Ug/L 2.0 0 Demotor-S-methyl Ug/L 0.5 0.01 Dischoroves Ug/L 0.5 0.01 Dimerboate Ug/L 0.5 0.15 Dimerboate Ug/L 2 0.15 EhN Ug/L 2 0.15 Ethooro Ug/L 0.5 0.15 Ethooporo Ug/L 0.5 0.01 Feanimphos Ug/L 0.5 0.02 Feanimphos Ug/L 0.5 0.02 Fenitorhon Ug/L 0.5 0.02	0.00003				-		-			-	-
Chlorefuniphos Ug/L 0.5 0.01	0.00003			100	-		-				-
Chloryrifes	0.00003			100				-	-	-	-
Chicarymios methyl Ug/L 0.5	0.00003			100			-				-
Counaphos µgl. 20 Demeton-O µgl. 2 Demeton-S µgl. 20 Demeton-S-methyl µgl. 0.5 Diazhon µgl. 0.5 0.01 Dichbrors µgl. 0.5 0.01 Dimethoate µgl. 0.5 0.15 Disubton µgl. 2 2 Ehn µgl. 0.5 Ehnor Ehrorop µgl. 0.5 Entoprop Feantemptos µgl. 0.5 Feantemptos Fenitorhon µgl. 0.5 O.2					-	-		-		-	
Demotor-O Ug/L 2 Demotor-S Ug/L 2 Demotor-S Ug/L 0.5 Demotor-S Ug/L 0.5 Demotor-S-methyl Ug/L 0.5 0.01 Dichloros Ug/L 0.5 0.5 Demotor-S-methyl 0.5 0.5 Demotor-S-methods Ug/L 0.5 0.5 Demotor-S-methods Ug/L					-	-	-	-	-	-	-
Demotor-S upd. 20 Demotor-Snethyl upd. 0.5 Diaznon upd. 0.5 0.01 Dictionvos uppl. 0.5 0.51 Dimelboale upgl. 0.5 0.15 Dimelboale upgl. 2 2 EPN upgl. 2 2 Elhor upd. 0.5 5 Ethoporgo upd. 0.5 Feanimphos Fenitorition upd. 0.5 Penitorition					-	-	-	-	-	-	-
Demotor-S-methyl Ug/L 0.5 0.					-	-	-	-	-	-	-
Diazinon					-	-	-	-	-	-	-
Dichronos					-			-	-	-	-
Dimethotate	0.1			40	-	-	-	-	-	-	-
Dimethoate μg/L 0.5 0.15 Disulfoton μg/L 2 2 EPN μg/L 2 2 Ethion μg/L 0.5 5 Emporp μg/L 2 2 Fearinghos μg/L 0.5 5 Featinghos μg/L 0.5 2 Control μg/L 0.2 0.2	0.1			50	-	-	-	-	-	-	-
Disulfoton pgL 2				70	-		-	-	-	-	-
EPN upl. 2 Ethion upl. 0.5 Ehoprop upl. 2 Feramiphos upl. 0.5 Feritorhon upl. 2				40	-	-	-	-	-	-	-
Ethion					-	-	-	-	-	-	-
Ethoprop µg/L 2 Fenamiphos µg/L 0.5 Fentrothion µg/L 2 0.2				40	-	-	-	-	-		-
Fenamiphos μg/L 0.5 Fenitrothion μg/L 2 0.2				10	-			-		-	
Fenitrothion µg/L 2 0.2				5	-	-		-			
							•			•	
	0.1			70	-	-		-	-	-	-
Fensulfothion µg/L 2				100	-	-	-	-	-	-	-
Fenthion µg/L 0.5				70	-	-	-	-	-	-	-
Malathion µg/L 0.5 0.05	0.002			700	-	-		-	-	-	-
Merphos µg/L 2					-	-	-	-	-	-	-
Methyl parathion µg/L 2				7	-			-	-	-	-
Mevinphos (Phosdrin) µg/L 2				50	-			-	-	-	-
Monocrotophos µg/L 2				20							
Naled (Dibrom) µg/L 2								-			+
Omethoate µg/L 2				10	-		-	-			-
Parathion μg/L 2 0.004	0.0007			200							
	0.0007			200	-	-	-	-	-	-	-
				900	-	-	-	-		-	
Pirimiphos-methyl µg/L 20					-	-	-	-	-	-	-
Pirimphos-ethyl µg/L 0.5				5	-	-	-	-	-	-	-
Prothiofos µg/L 0.5					-	-	-	-	-	-	-
Pyrazophos µg/L 2				200	-	-		-	-	-	-
Ronnel µg/L 2					-	-	-	-	-	-	-
Terbufos µg/L 2				9	-	-	-	-	-	-	-
Trichloronate µg/L 2						-		-	-	-	-
Tetrachlorvinphos µg/L 2				1000	-	-	-	-	-	-	-
MAH								i	1	i e	1
1,2,4-trimethylbenzene µg/L 1					-	-	-	-	-	-	-
1,3,5-trimethylbenzene µg/L 1					-	_	_	-			-
Isopropylbenzene µg/L 1								-			
Styrene µg/L 1				300	-			-		l	
				300	-	-	-	-		 	+
					-	-	•	-	-	-	+
Halogenated Hydrocarbons									1	l	4
Bromomethane µg/L 1				10	-	-	-	-	-	-	-
Dichlorodifluoromethane µg/L 1					-	-	-	-	-	-	-
PCBa											
Arochlor 1016 µg/L 1					-	-	-	-	-	-	-
Arochlor 1221 µg/L 1					-			-	-	-	-
Arochlor 1232 µg/L 1					-		-	-	-	-	
Arochlor 1242 µg/L 1 0.6	0.3				-	-	-	-	-	-	-
Arochlor 1248 µg/L 1					-	-	-	-	-	-	-
Arochior 1254 µg/L 1 0.03	0.01				-	-	-	-	-	-	-
	0.01										
					-	-	-	-	-	-	-
PCBs (Total) µg/L 1					-	-	-	-	-	-	-
Herbicides											
Dinoseb µg/L 100					-	-					
Pronamide µg/L 2				700	-		-	-	-	-	-



								Location Code	NEL-BH083	NEL-BH086	NEL-BH086	NEL-BH086	NEL-BH087	NEL-BH088	NEL-BH089	NEL-BH091	NEL-BH093
								Field ID	NEL-BH083 / 160418	NEL-BH086 / 120718	QC1 / 120718	QC2/120718	NEL-BH087 / 120718	NEL-BH088 / 120718	NEL-BH089 / 120718	NEL-BH091/160218	NEL-BH093 / 160418
								Date	16/04/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	16/02/2018	16/04/2018
								Sample Type	Nomal	Normal	Field_D	Field_D	Normal	Normal	Normal	Normal	Normal
								Lab Daniel March									
					_			Lab Report Number	594417 / EM1806339	607533 / EM1811208	607533	EM1811208	607533 / EM1811208	607533 / EM1811208	607533 / EM1811208	585329 / EM1803154	594417 / EM1806339
			ANZECC 2000 -				ANZECC 2000 Irrigation -	NHMRC Recreational									
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008									
OP Pesticides																	
Tokuthion	µg/L	2							-	<2	<2	-	<2	<2	<2	<2	-
Azinphos methyl	μg/L	0.5		0.02	0.01			300	-	<2	<2	< 0.5	<2	<2	<2	<2	-
Bolstar (Sulprofos)	μg/L	2						100		<2	<2	-	<2	<2	<2	<2	-
Bromophos-ethyl	μg/L	0.5						100			-	<0.5	-				
Carbophenothion	µg/L	0.5							_		-	<0.5	-	-		-	
Chlorfenvinohos	µg/L	0.5							-				<2				
					0.00001			100		<2	<2	<0.5		<2	<2	<2	-
Chlorpyrifos	μg/L	0.5		0.01	0.00004			100	-	<20	<20	<0.5	<20	<20	<20	<20	
Chlorpyrifos-methyl	μg/L	0.5							-	<2	<2	<0.5	<2	<2	<2	<2	-
Coumaphos	μg/L	20							-	<20	<20	-	<20	<20	<20	<20	-
Demeton-O	μg/L	2							-	<2	<2	-	<2	<2	<2	<2	-
Demeton-S	µg/L	20							-	<20	<20	-	<20	<20	<20	<20	-
Demeton-S-methyl	μg/L	0.5							-	-	-	< 0.5	-	-	-	-	-
Diazinon	μg/L	0.5		0.01	0.00003			40	-	<2	<2	<0.5	<2	<2	<2	<2	-
Dichlorvos	µg/L	0.5						50	-	<2	<2	<0.5	<2	<2	<2	<2	-
Direthoate				0.15	0.1				-								
	μg/L	0.5		0.15	0.1			70		<2	<2	<0.5	<2	<2	<2	<2	
Disulfoton	μg/L	2						40	-	<2	<2	-	<2	<2	<2	<2	-
EPN	μg/L	2							-	<2	<2	-	<2	<2	<2	<2	-
Ethion	μg/L	0.5						40	-	<2	<2	<0.5	<2	<2	<2	<2	-
Ethoprop	μg/L	2						10	-	<2	<2	-	<2	<2	<2	<2	-
Fenamiphos	μg/L	0.5						5	-	-	-	< 0.5	-	-	-	-	-
Fenitrothion	μg/L	2		0.2	0.1			70		<2	<2		<2	<2	<2	<2	
Fensulfothion	µg/L	2						100	-	<2	<2	-	<2	<2	<2	<2	
Fenthion	µg/L	0.5						70	-	<2	<2	<0.5	<2	<2	<2	<2	-
Malathion	µg/L			0.05	0.002			700	-	<2	<2	<0.5	<2	<2	<2	<2	
		0.5		0.05	0.002			700									-
Merphos	μg/L	2							-	<2	<2	-	<2	<2	<2	<2	-
Methyl parathion	μg/L	2						7	-	<2	<2	<2.0	<2	<2	<2	<2	-
Mevinphos (Phosdrin)	μg/L	2						50	-	<2	<2	-	<2	<2	<2	<2	-
Monocrotophos	μg/L	2						20	-	<2	<2	<2.0	<2	<2	<2	<2	-
Naled (Dibrom)	μg/L	2							-	<2	<2	-	<2	<2	<2	<2	-
Omethoate	μg/L	2						10	-	<2	<2	-	<2	<2	<2	<2	
Parathion	µg/L	2		0.004	0.0007			200	-	<2	<2	<2.0	<2	<2	<2	<2	
Phorate	µg/L	2		0.004	0.0007			200		<2	<2		<2	<2	<2	<2	
Printinghos-methyl	µg/L							900									
	μg/L	20							-	<20	<20	-	<20	<20	<20	<20	-
Pirimphos-ethyl	μg/L	0.5						5	-	-	-	<0.5	-	-	-	-	-
Prothiofos	μg/L	0.5							-	-	-	< 0.5	-	-	-	-	-
Pyrazophos	μg/L	2						200	-	<2	<2	-	<2	<2	<2	<2	-
Ronnel	μg/L	2							-	<2	<2	-	<2	<2	<2	<2	-
Terbufos	μg/L	2						9	-	<2	<2	-	<2	<2	<2	<2	-
Trichloronate	μg/L	2								<2	<2		<2	<2	<2	<2	
Tetrachlorvinphos	μg/L	2						1000		<2	<2		<2	<2	<2	<2	
MAH	pgr	+-						1000			-	+		+	-		1
1,2,4-trimethylbenzene	und	1								<1	<1	<5	<1	<1	25	<1	
	µg/L	+ :															1 -
1,3,5-trimethylbenzene	μg/L	1							-	<1	<1	<5	<1	<1	4	<1	-
Isopropylbenzene	μg/L	1							-	<1	<1	<5	<1	<1	2	<1	-
Styrene	μg/L	1						300	-	<1	<1	<5	<1	<1	<1	<1	-
Total MAH□	μg/L	3							-	⋖	<3	-	<3	<3	101	<3	-
Halogenated Hydrocarbons														1			
Bromomethane	μg/L	1						10	-	<1	<1	<50	<1	<1	<1	<1	-
Dichlorodifluoromethane	μg/L	1								<1	<1	<50	<1	<1	<1	<1	1 -
PCBs	pg-	+ -										-00		+	+ -	1	1
Arochlor 1016	confl	-									<1	+				<1	+
Arochlor 1016 Arochlor 1221	µg/L	1							-	<1		-	<1	<1	<1		-
	μg/L	1							-	<1	<1	-	<1	<1	<1	<1	-
Arochlor 1232	μg/L	1							-	<1	<1	-	<1	<1	<1	<1	-
Arochlor 1242	μg/L	1		0.6	0.3				-	<1	<1	-	<1	<1	<1	<1	-
Arochlor 1248	μg/L	- 1							-	<1	<1	-	<1	<1	<1	<1	-
Arochlor 1254	μg/L	1		0.03	0.01				-	<1	<1	-	<1	<1	<1	<1	-
Arochlor 1260	μg/L	1							-	<1	<1		<1	<1	<1	<1	
PCBs (Total)	µg/L	1							-	<1	<1	<1	<1	<1	<1	<1	-
Herbicides	pg-	+ -										-		+	+ -	1	1
	confl	400							-	<100	×400	-	<100	-400	-400	-400	-
Dinoseb	μg/L	100								<100	<100	1 -	<100	<100	<100	<100	1 -
Pronamide	µg/L	2						700	-	<5	<5	<2	<5	<5	<5	<5	-



								Leadles Code	NEL-BH095	NET DUMO?	NEL-BH098	NEL-BH106	NEL-BH107	NEL-BH125	NEL-BH125	NEL-BH125
								Location Code		NEL-BH097						
								Fleid ID	NEL-BH095 / 130218	NEL-BH097/150218		NEL-BH106 / 160418	NEL-BH107 / 160418	NEL-BH125/160218	QC1/160218	QC2/160218
								Date	13/02/2018	15/02/2018	15/02/2018	16/04/2018	16/04/2018	16/02/2018	16/02/2018	16/02/2018
								Sample Type	Normal	Normal	Normal	Nomal	Normal	Normal	Field_D	Field_D
								Lab Report Number	584938	585222 / EM1803079	585222 / EM1803079	594417 / EM1806339	594417 / EM1806339	585329 / EM1803154	585329 / EM1803154	EM1803154
			ANZECC 2000 -	ANZECC 2000	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational	504550	DODLEL / LIN 1000010	DUDELE / EIN 1000010	0044117 EN11000000	004411 / EM1000000	0000207 EN11000104	0000E0 / EIN 1000 104	EM1000104
	11-16	FOI														
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008			1				1	1
OP Pesticides																
Tokuthion	μg/L	2							-	-	-	-	-	<2	<2	-
Azinphos methyl	μg/L	0.5		0.02	0.01			300	-	-	-	-	-	<2	<2	< 0.5
Bolstar (Sulprofos)	μg/L	2						100	-	-	-	-	-	<2	<2	-
Bromophos-ethyl	μg/L	0.5						100	-	-	-	-	-	-	-	<0.5
Carbophenothion	μg/L	0.5											-			< 0.5
Chlorfenvinphos	µg/L	0.5									-		-	<2	<2	<0.5
				0.01	0.00004			100								
Chlorpyrifos	μg/L	0.5		0.01	0.00004			100	-	-	-	-	-	<20	<20	<0.5
Chlorpyrifos-methyl	μg/L	0.5							-	-	-	-	-	<2	<2	<0.5
Coumaphos	μg/L	20							-	-	-	-	-	<20	<20	-
Demeton-O	μg/L	2							-	-	-	-	-	<2	<2	-
Demeton-S	μg/L	20							-	-	-	-	-	<20	<20	-
Demeton-S-methyl	μg/L	0.5							-	-	-	-		-	-	<0.5
Diazinon	µg/L	0.5		0.01	0.00003			40	-	-		-	-	<2	<2	<0.5
Dichloryos		0.5		0.01	0.00003			50			-					
	µg/L								-	-	-	-	-	<2	<2	<0.5
Dimethoate	μg/L	0.5		0.15	0.1			70	-	-	-	-	-	<2	<2	<0.5
Disulfoton	μg/L	2						40	-	-	-	-	-	<2	<2	-
EPN	μg/L	2							-	-	-	-	-	<2	<2	-
Ethion	μg/L	0.5						40	-	-	-	-	-	<2	<2	< 0.5
Ethoprop	μg/L	2						10			-	-	-	<2	<2	-
Fenamiphos	µg/L	0.5						5	-	-	-	-	-	-	-	<0.5
Fenitrothion	μg/L	2		0.2	0.1			70	-	-	-	-	-	<2	<2	-
Fensulfothion	μg/L	2						100	-	-	-	-	-	<2	<2	-
Fenthion	μg/L	0.5						70	-	-	-	-	-	<2	<2	<0.5
Malathion	μg/L	0.5		0.05	0.002			700	-	-	-	-	-	<2	<2	< 0.5
Merphos	μg/L	2							-	-	-	-	-	<2	<2	-
Methyl parathion	μg/L	2						7	-	-	-	-		<2	<2	<2.0
Mevinphos (Phosdrin)	µg/L	2						50	-	-		-	-	<2	<2	-
Monocrotophos	µg/L	2						20	-	_	_	-		<2	<2	<2.0
Naled (Dibrom)								20			-	-				
	μg/L	2							-		-			<2	<2	-
Omethoate	μg/L	2						10	-	-	-	-	-	<2	<2	-
Parathion	μg/L	2		0.004	0.0007			200	-	-	-	-	-	<2	<2	<2.0
Phorate	µg/L	2							-	-	-	-	-	<2	<2	-
Pirimiphos-methyl	μg/L	20						900	-	-	-	-	-	<20	<20	-
Pirimphos-ethyl	μg/L	0.5						5			_			_		<0.5
Prothiofos	µg/L	0.5							-	-		-		-		<0.5
Pyrazophos								200						-	•	
	μg/L	2						200	-	-	-	-	-	<2	<2	-
Ronnel	μg/L	2							-	-	-	-	-	<2	<2	-
Terbufos	μg/L	2						9	-	-	-	-	-	<2	<2	-
Trichloronate	μg/L	2							-	-	-	-	-	<2	<2	-
Tetrachlorvinphos	μg/L	2						1000	-	-	-	-	-	<2	<2	-
MAH		+-						,							_	
1.2.4-trimethylbenzene	µg/L	1							-	-	-	-	-	<1	<1	<5
1,3,5-trimethylbenzene	µg/L															
		1							-	-		-	-	<1	<1	<5
Isopropylbenzene	μg/L	1							-	-	-	-	-	<1	<1	<5
Styrene	μg/L	- 1						300	-	-	-	-	-	<1	<1	<5
Total MAH□	μg/L	3							-	-	-	-	-	<3	<3	-
Halogenated Hydrocarbons																
Bromomethane	μg/L	1						10			-	-	-	<1	<1	<50
Dichlorodifluoromethane	µg/L	1							-	-	-	-	-	<1	<1	<50
PCBs	pg/L								<u> </u>	 	 		 	~1		-50
		+								1	1		1	1	1	1
Arochlor 1016	μg/L	1							-	-	-	-	-	<1	<1	-
Arochlor 1221	μg/L	1							-	-	-	-	-	<1	<1	-
Arochlor 1232	µg/L	- 1							-	-	-	-	-	<1	<1	-
Arochlor 1242	μg/L	- 1		0.6	0.3				-	-	-	-	-	<1	<1	-
Arochlor 1248	μg/L	1								1 -	1 -			<1	<1	
Arochlor 1254	µg/L	1		0.03	0.01						-	-	-	<1	<1	-
Arochior 1260	μg/L μg/L	1		0.03	0.01					-		-	-	<1	<1	-
											-					
PCBs (Total)	μg/L	1							-	-	-	-	-	<1	<1	<1
Herbicides																
Dinoseb	μg/L	100							-	-	-	-	-	<100	<100	-



								Location Code	NEL-BH128	NEL-BH140	NEL-ENV-BH006	NEL-ENV-BH008	NEL-ENV-BH009	NEL-ENV-BH009	NEL-ENV-BH014
								Fleid ID	NEL-BH128/080318	NEL-BH140/180418	NEL-ENV-BH006 27062018	NEL-ENV-BH008_08052018	NEL-ENV-BH009_27062018	NEL-ENV-BH009_19072018	ENV-BH014 / 130718
								Date	8/03/2018	18/04/2018	27/06/2018	8/05/2018	27/06/2018	19/07/2018	13/07/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Nomal
								Lab Report Number	588501	594938	EM1810368	EM1807515	EM1810368	EM1811589	607533 / EM1811208
			ANZECC 2000 -		0 ANZECC 2000		ANZECC 2000 Irrigation -	NHMRC Recreational							
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008							
OP Pesticides															1 1
Tokuthion	µg/L	2							<2		-	-	-	-	<2
Azinphos methyl	μg/L	0.5		0.02	0.01			300	<2	-	<0.5	<0.5	<0.5	_	<2
Bolstar (Sulprofos)	µg/L	2		0.02	0.01			100	<2	-	-0.0	-0.0	-0.0	-	<2
								100		-					
Bromophos-ethyl	μg/L	0.5						100	•	-	<0.5	<0.5	<0.5	-	-
Carbophenothion	μg/L	0.5								-	<0.5	<0.5	<0.5	-	-
Chlorfenvinphos	μg/L	0.5							<2	-	<0.5	<0.5	<0.5	-	<2
Chlorpyrifos	μg/L	0.5		0.01	0.00004			100	<20	-	<0.5	<0.5	<0.5	-	<20
Chlorpyrifos-methyl	μg/L	0.5							<2	-	<0.5	<0.5	<0.5	-	<2
Coumaphos	µg/L	20							<20	-	-	-	-	-	<20
Demeton-O	µg/L	2							<2	-	-	-	-	-	<2
Demeton-S	μg/L	20							<20	-	-	-	-	-	<20
		0.5									<0.5	<0.5	<0.5		
Demeton-S-methyl	µg/L								-	-				-	-
Diazinon	μg/L	0.5		0.01	0.00003			40	<2	-	<0.5	<0.5	<0.5	-	<2
Dichlorvos	μg/L	0.5						50	<2	-	<0.5	<0.5	<0.5	-	<2
Dimethoate	μg/L	0.5		0.15	0.1			70	<2	-	<0.5	<0.5	<0.5	-	<2
Disulfoton	µg/L	2						40	<2	-	-	-	-	-	<2
EPN	μg/L	2							<2	-	-	-	-	-	<2
Ethion	μg/L	0.5						40	<2	-	<0.5	<0.5	<0.5	-	<2
Ethoprop	µg/L	2						10	<2		-0.0	-0.0	-0.5		<2
															<2 -
Fenamiphos	μg/L	0.5						5	-	-	<0.5	<0.5	<0.5	-	
Fenitrothion	μg/L	2		0.2	0.1			70	<2	-	-	-	-	-	<2
Fensulfothion	μg/L	2						100	<2	-	-	-	-	-	<2
Fenthion	µg/L	0.5						70	<2	-	<0.5	<0.5	<0.5	-	<2
Malathion	µg/L	0.5		0.05	0.002			700	<2	-	<0.5	<0.5	<0.5	-	<2
Merphos	μg/L	2							<2	-	-	-	-	-	<2
Methyl parathion	µg/L	2						7	<2		<2.0	<2.0	<2.0	_	<2
Metry paratrior								50		-	~ 2.0		~ 2.0	-	
Mevinphos (Phosdrin)	μg/L	2							<2				-	-	<2
Monocrotophos	μg/L	2						20	<2	-	<2.0	<2.0	<2.0	-	<2
Naled (Dibrom)	µg/L	2							<2	-	-	-	-	-	<2
Omethoate	μg/L	2						10	<2	-	-	-	-	-	<2
Parathion	μg/L	2		0.004	0.0007			200	<2	-	<2.0	<2.0	<2.0	-	<2
Phorate	µg/L	2							<2	-	-	-	-	-	<2
Pirimiphos-methyl	µg/L	20						900	<20		_	-	_	_	<20
Pirimphos-ethyl	µg/L	0.5						5			<0.5	<0.5	<0.5		
Prothiofos								, , , , , , , , , , , , , , , , , , ,	-	-				-	-
	μg/L	0.5							-	-	<0.5	<0.5	<0.5	-	-
Pyrazophos	µg/L	2						200	<2	-	-	-	-	-	<2
Ronnel	μg/L	2							<2	-	-	-	-	-	<2
Terbufos	μg/L	2						9	<2	-	-	-	-	-	<2
Trichloronate	µg/L	2							<2	-	-	-	-	-	<2
Tetrachlorvinphos	µg/L	2						1000	<2	-	-	-	-	-	<2
MAH	Po-	+-						,000	-	1					+
	loud	1								-	<5	<5	<5	_	<1
1,2,4-trimethylbenzene	µg/L														
1,3,5-trimethylbenzene	µg/L	1							-	-	<5	<5	<5	-	<1
Isopropylbenzene	μg/L	1							<1	-	<5	<5	<5	-	<1
Styrene	µg/L	- 1						300	<1	-	<5	<	<5	-	<1
Total MAH□	μg/L	3							<3	-	-	-	-	-	<3
Halogenated Hydrocarbons	1														
Bromomethane	μg/L	- 1						10		-	<50	<50	<50	-	<1
Dichlorodifluoromethane	µg/L	1							-	-	<50	<50	<50		<1
PCBs	PS/L	-								+	~50	-50	-50	1	~ 1
	+	+							<1	+		1	1		<1
Arochlor 1016	μg/L	1								-	-	-	-	-	
Arochlor 1221	µg/L	1							<1	-	-	-	-	-	<1
Arochlor 1232	μg/L	- 1							<1	-	-	-	-	-	<1
Arochlor 1242	μg/L	1		0.6	0.3				<1	-	-	-	-	-	<1
Arochlor 1248	µg/L	- 1							<1	1 -	-	-	-	-	<1
Arochlor 1254	μg/L	1		0.03	0.01				<1	-	_	-			<1
Arochlor 1260	µg/L	1		0.00	0.01					1					<1
		1							<1	-	<1	<1	<1		
PCBs (Total)	µg/L	1							<1	-	<1	<1	<1	-	<1
Herbicides	1	1								1		1	1		
Dinoseb	μg/L	100							<100	-	-	-	-	-	<100
Pronamide	µg/L	2						700	<5	-	<2	<2	<2	-	<5

NEL-PB01A

NEL-ENV-BH032



Appendix J Table 5 Summary of Groundwater Analytical Results

NEL-ENV-BH024 NEL-ENV-BH024 NEL-ENV-BH024

							Fleid ID	NEL-ENV-BH022	NEL-ENV-BH024_08052018		QC5000_08052018	QC6000_08052018	NEL-ENV-BH025_09052018	NEL-ENV-BH032_27062018	
							Date	27/09/2018	8/05/2018	19/07/2018	8/05/2018	8/05/2018	9/05/2018	27/06/2018	6/07/2018
							Sample Type	Normal	Normal	Normal	Field_D	Field_D	Normal	Normal	Normal
							Lab Report Number	EM1815577	EM1807515	EM1811589	EM1807515	EM1807515	EM1807669	EM1810368	607533
			ANZECC 2000 - ANZECC 20	00 ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational			'			•		-
	Unit	EQL	Stock Watering FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008								
OP Pesticides													1	1	
Tokuthion	μg/L	2						-	-	-	-	-	-	-	-
Azinphos methyl	μg/L	0.5	0.02	0.01			300	< 0.5	<0.5	-	<0.5	< 0.5	<0.5	<0.5	-
Bolstar (Sulprofos)	μg/L	2					100	-	-	-	-	-	-	-	-
Bromophos-ethyl	μg/L	0.5					100	< 0.5	<0.5	-	<0.5	< 0.5	<0.5	<0.5	-
Carbophenothion	μg/L	0.5						< 0.5	<0.5	-	<0.5	< 0.5	<0.5	<0.5	-
Chlorfenvinphos	μg/L	0.5						<0.5	<0.5	-	<0.5	< 0.5	< 0.5	<0.5	-
Chlorpyrifos	μg/L	0.5	0.01	0.00004			100	< 0.5	<0.5	-	<0.5	< 0.5	<0.5	< 0.5	-
Chlorpyrifos-methyl	μg/L	0.5						< 0.5	<0.5	-	<0.5	< 0.5	<0.5	<0.5	-
Coumaphos	μg/L	20						-	-	-	-	-	-	-	-
Demeton-O	μg/L	2						-	-	-	-	-	-	-	-
Demeton-S	μg/L	20						-	-	-	-	-	-	-	-
Demeton-S-methyl	μg/L	0.5						<0.5	<0.5	-	<0.5	< 0.5	< 0.5	<0.5	-
Diazinon	μg/L	0.5	0.01	0.00003			40	<0.5	<0.5	-	<0.5	< 0.5	< 0.5	<0.5	-
Dichlorvos	μg/L	0.5					50	<0.5	<0.5	-	<0.5	< 0.5	<0.5	< 0.5	-
Dimethoate	μg/L	0.5	0.15	0.1			70	<0.5	<0.5	-	<0.5	< 0.5	<0.5	< 0.5	-
Disulfoton	μg/L	2					40	-	-	-	-	-	-	-	-
EPN	μg/L	2						-	-	-	-	-	-	-	-
Ethion	μg/L	0.5					40	<0.5	<0.5	-	<0.5	< 0.5	<0.5	<0.5	-
Ethoprop	μg/L	2					10	-	-	-	-	-	-	-	-
Fenamiphos	μg/L	0.5					5	<0.5	<0.5	-	<0.5	< 0.5	<0.5	<0.5	-
Fenitrothion	μg/L	2	0.2	0.1			70	-	-	-	-	-	-	-	-
Fensulfothion	μg/L	2					100	-	-	-	-	-	-	-	-
Fenthion	μg/L	0.5					70	<0.5	<0.5	-	<0.5	< 0.5	<0.5	< 0.5	-
Malathion	μg/L	0.5	0.05	0.002			700	<0.5	<0.5	-	<0.5	< 0.5	<0.5	< 0.5	-
Merphos	μg/L	2						-	-	-	-	-	-	-	-
Methyl parathion	μg/L	2					7	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	-
Mevinphos (Phosdrin)	μg/L	2					50	-	-	-	-	-	-	-	-
Monocrotophos	μg/L	2					20	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	-
Naled (Dibrom)	μg/L	2						-	-	-	-	-	-	-	-
Omethoate	μg/L	2					10	-	-	-	-	-	-	-	-
Parathion	μg/L	2	0.004	0.0007			200	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	-
Phorate	μg/L	2						-	-	-	-	-	-	-	-
Pirimiphos-methyl	μg/L	20					900	-	-	-	-	-	-	-	-
Pirimphos-ethyl	μg/L	0.5					5	<0.5	<0.5	-	<0.5	< 0.5	<0.5	< 0.5	-
Prothiofos	μg/L	0.5						<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	-
Pyrazophos	μg/L	2					200	-	-	-	-	-	-	-	-
Ronnel Terbufos	μg/L	2						-	-	-	-	-	-	-	-
	μg/L	2					9	-	-	-	-	-	-	-	-
Trichloronate	μg/L	2						-	-	-	-	-	-	-	-
Tetrachlorvinphos	μg/L	2					1000	-	-	-	-	-	-	-	-
		+ .						600		1			-		+
1,2,4-trimethylbenzene 1,3,5-trimethylbenzene	µg/L	1						628	<5	-	<5	<5	<5	<5	-
	µg/L	1 1						185 <100	<5	-	<5 <5	<5 <5	<5	<5 <5	-
Isopropylbenzene Styrene	μg/L μg/L	1					300	<100	0 0	-	<5	<5 <5	<5 <5	<5 <5	-
Total MAH	µg/L	3					300	×100		-		<5		<5	
	pg/L	+ 3						-	-	1	-	+	<u> </u>	1	+
Bromomethane	und	+ .					10	<1.000	-50		×60	-50	-50	-50	+
Dichlorodifluoromethane	μg/L	1 1					10	<1,000 <1,000	<50 <50	-	<50 <50	<50	<50 <50	<50 <50	-
CBs	μg/L	+ '-			_			×1,000	NOU	1	NOU	<50	<50	500	+
Arochlor 1016	µg/L	1						-	-	-	-	-	-	-	-
Arochlor 1221	μg/L μg/L	1							-	1	-	-	 	<u> </u>	-
Arochlor 1232	µg/L	1						-	-	1	-	-	-	-	-
Arochlor 1232 Arochlor 1242	µg/L	1	0.6	0.3				-	-		-		-	-	-
Arochlor 1242 Arochlor 1248	μg/L μg/L	1	0.6	0.3	_			-	-	-	-	-	-	-	-
Arochlor 1248 Arochlor 1254		1 1	0.03	0.01				-	-	-	-	-	-	-	-
Arochlor 1260	μg/L	1	0.03	0.01	_			-	-	-	-	-	-	-	-
PCBs (Total)	μg/L μg/L	1						<1		1		<1	<1	<1	-
PCBs (Total) lerbicides	µg/L	+ '-							×1	1			*1	~1	+
Dinoseb	und	100						_	_	_	_	_		_	_
	μg/L μg/L	100					700			1					
Pronamide							700	<2	<2	1 -	<2	<2	<2	<2	-



								1 0 4	NET DITECT	NEL-BH004A	Turn numer	NEL-BH031	NEL DITORT	NEL-BH038	NEL-BH039	NEL-BH039	NET DIVIDE
								Location Code Field ID	NEL-BH004 NEL-BH004 D/150218		NEL-BH031 NEL-BH031/080318	NEL-BH031 / 130218	NEL-BH037 NEL-BH037 / 160418	NEL-BH038 NEL-BH038 / 140218	NEL-BH039 NEL-BH039/180418	OC1/180418	NEL-BH039 QC2 / 180418
								Date	15/02/2018	15/02/2018	8/03/2018	13/02/2018	16/04/2018	14/02/2018	18/04/2018	18/04/2018	18/04/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Field_D
								Lab Report Number	585222 / EM1803079	585222 / EM1803079	588501	584938	594417 / EM1806339	584987 / EM1802989	594938 / EM1806473	594938 / EM1806473	EM1806473
	Unit	EQL		ANZECC 2000 FW 95%	ANZECC 2000 FW 99%		ANZECC 2000 Irrigation -	NHMRC Recreational					•	•		*	
FAS	Unit	EUL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008		1	I .	T.	1	1	1	T.	1
Perfluorodecanesulfonic acid (PFDS)	μg/L	0.002									<0.01				< 0.01	<0.01	<0.02
Perfluoro-n-hexadecanoic acid (PFHxDA)	μg/L	0.005							-	-	-0.01	-	-	-	-0.01	-	-0.02
Perfluoroheptane sulfonic acid (PFHpS)	μg/L	0.002							-	-	< 0.01	-	-	-	< 0.01	< 0.01	< 0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	μg/L	0.002								-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.02
N-Methyl perfluorooctane sulfonamidoethanol	μg/L	0.005							-	-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.05
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	μg/L	0.01							-	-	-	-	-	-	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	μg/L	0.01							-	-	-	-	-	-	-	-	-
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	μg/L	0.005							-	-	< 0.01	-	-	-	< 0.01	<0.01	< 0.05
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	μg/L	0.005							-	-	< 0.01	-	-	-	< 0.01	< 0.01	< 0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.002							-	-	< 0.05	-	-	-	<0.05	<0.05	<0.02
Perfluorobutane sulfonic acid (PFBS)	μg/L	0.002								-	< 0.01	-	-	-	<0.01	<0.01	<0.02
Perfluoropentanoic acid (PFPeA) Perfluorohexane sulfonic acid (PFHxS)	µg/L µg/L	0.002							-	-	<0.01	-	-	-	<0.01	<0.01	<0.02
									-	-		-	-	-	<0.01		
8:2 Fluorotelomer sulfonic acid (8:2 FTS) N-Ethyl perfluorocctane sulfonamide (EtFOSA)	µg/L	0.005							-	-	<0.01	-	-	-	<0.01 <0.05	<0.01 <0.05	<0.05 <0.05
N-Ethyl perfluorooctane sulfonamide (Eti-OSA) N-Ethyl perfluorooctane sulfonamidoethanol	μg/L μg/L	0.005							-	-	<0.05	-	1 -		<0.05	<0.05	<0.05
N-Methyl periluorooctane sulfonamide (MeFOSA)	µg/L	0.005									<0.05		1		<0.05	<0.05	<0.05
6:2 Fluorotelomer Sulfonate (6:2 FTS)	µg/L	0.005							-	-	<0.05	-	-	-	<0.05	<0.05	<0.05
Perfluorooctanoic acid (PFOA)	µg/L	0.002				19			-	-	<0.01	-	-	-	<0.01	<0.01	<0.03
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.002							-	-	<0.01	-	-	-	<0.01	<0.01	<0.02
Perfluorobutanoic acid (PFBA)	µg/L	0.01							-	-	<0.05	-	-	-	< 0.05	<0.05	<0.1
Perfluorodecanoic acid (PFDA)	μg/L	0.002							-	-	<0.01	-	-	-	< 0.01	<0.01	< 0.02
Perfluorododecanoic acid (PFDoDA)	μg/L	0.002							-	-	<0.01	-	-	-	< 0.01	<0.01	< 0.02
Perfluoroheptanoic acid (PFHpA)	μg/L	0.002							-	-	<0.01	-	-	-	< 0.01	<0.01	< 0.02
Perfluorohexanoic acid (PFHxA)	μg/L	0.002							-	-	< 0.01	-	-	-	< 0.01	< 0.01	< 0.02
Perfluorononanoic acid (PFNA)	μg/L	0.002							-	-	< 0.01	-	-	-	< 0.01	< 0.01	< 0.02
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.002				0.00023			-	-	< 0.01	-	-	-	<0.01	<0.01	< 0.01
Perfluorooctane sulfonamide (FOSA)	μg/L	0.002								-	< 0.05	-	-	-	< 0.05	< 0.05	< 0.02
Perfluorotetradecanoic acid (PFTeDA)	μg/L	0.005							-	-	< 0.01	-	-	-	< 0.01	<0.01	<0.05
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.002							-	-	< 0.01	-	-	-	<0.01	<0.01	<0.02
Perfluoroundecanoic acid (PFUnDA) PFAS (Sum of Total)	μg/L	0.002								-	< 0.01	-	*	-	<0.01	<0.01	<0.02
PFAS (Sum of Total) PFAS (Sum of Total)(WA DER List)	μg/L	0.002							-	-	<0.1	-	-	-	<0.1	<0.1	<0.01
Sum of PFHxS and PFOS	μg/L μg/L	0.002							-	-	<0.01	-	-	-	<0.05	<0.01	<0.01
PH	pgrL	0.002							-	-	NU.U1	-	-	-	NO.01	NU.U1	NU.U1
Oil & Grease	mg/L	10							_		<10						_
lological																	
Sulfate Reducing Bacteria Population Estimate	pac/mL	20							320	120,000	-	-	320	27,000	6,000	27,000	6,000
Sulfate Reducing Bacteria Aggressivity	+ '	- 1							1	1				1			
hiorinated Hydrocarbons											-	-	1	1	1	1	1
Chlorinated hydrocarbons EPAVic										·	-	-	1	1	1	1	1
Onnormation of the Control of the Co	μg/L	5								-	-	-	- 1	-	- 1 <5	- 1 <5	1
Other chlorinated hydrocarbons (Total)	μg/L MG/L	5							-	-	-	-		-			-
Other chlorinated hydrocarbons (Total) 1,1,1,2-tetrachloroethane	MG/L µg/L	5								-		-	- - -		<5	<5	<5
Other chlorinated hydrocarbons (Total) 1,1,1,2-tetrachloroethane 1,1,1-trichloroethane	MG/L µg/L µg/L	1								-	-	-	-		<5 <0.005	<5 <0.005 <1 <1	-
Other chlorinated hydrocarbons (Total) 1,1,1,2-tetrachloroethane 1,1,1,2-tetrachloroethane 1,1,2,2-tetrachloroethane	MG/L µg/L µg/L µg/L	1 1 1							-	-	-		-		<5 <0.005 <1 <1 <1 <1	<5 <0.005 <1 <1 <1 <1	- <5 <5 <5
Other chlorinated hydrocarbons (Total) 1,1,12-terlachloroethane 1,1,1-trichloroethane 1,1,2-terlachloroethane 1,1,2-trichloroethane	MG/L µg/L µg/L µg/L µg/L	1 1 1 1 1		6500	5400			200		-	-	-	-		<5 <0.005 <1 <1 <1 <1 <1	<5 <0.005 <1 <1 <1 <1 <1 <1	
Other chiorinated hydrocarbons (Total) 1,1,1-2-tertanchioroethane 1,1,1-1-trichioroethane 1,1,2-2-tertanchioroethane 1,1-2-trichioroethane 1,1-dichioroethane 1,1-dichioroethane	MG/L µg/L µg/L µg/L µg/L µg/L µg/L	1 1 1 1 1 1		6500	5400			300		-			-	-	<5 <0.005 <1 <1 <1 <1	<5 <0.005 <1 <1 <1 <1	
Other chlorinated hydrocarbons (Total) 1,1,5-terinathorosthane 1,1,5-terinathorosthane 1,1,2-terinathorosthane 1,1,2-terinathorosthane 1,1,2-terinathorosthane 1,1-dichlorosthane 1,1-dichlorosthane 1,1-dichlorosthane	MG/L µg/L µg/L µg/L µg/L µg/L µg/L	1 1 1 1 1 1 5						300		-		-	-	-	<5 <0.005 <1 <1 <1 <1 <1	<5 <0.005 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	
Other chiomated hydrocarbons (Tota) 1,1,1-2-fetta/choredhane 1,1,1-artin/choredhane 1,1,1-2-fetta/choredhane 1,1,2-artin/choredhane 1,1,2-artin/choredhane 1,1,2-artin/choredhane 1,1-dichloredhane 1,1-dichloredhane 1,1-dichloredhane	MG/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	1 1 1 1 1 1 5		6500	5400			300		-			-	-	<5 <0.005 <1 <1 <1 <1 <1	<5 <0.005 <1 <1 <1 <1 <1 <1	
Other chlorinated hydrocarbons (Total) 1,1,1-2-terina/horcethane 1,1,1-3-terina/horcethane 1,1,1-3-terina/horcethane 1,1,2-2-terina/horcethane 1,1,2-2-terina/horcethane 1,1-4-dichiorosethane 1,1-4-dichiorosethane 1,2-4-terina/horcethane	MG/L µg/L	1 1 1 1 1 1 5 1 5		170	85					-			-	-	<5 <0.005 <1 <1 <1 <1 <1	<5 <0.005 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	45 45 45 45 45 45 45 45 45 45 45 45 45 45
Other chlorinated hydrocarbons (Tota) 1,1,3-ethorizonethane 1,1,3-ethorizonethane 1,1,3-ethorizonethane 1,1,2-ethorizonethane 1,1,2-ethorizonethane 1,1,2-ethorizonethane 1,1,2-ethorizonethane 1,1,2-ethorizonethane 1,1,2-ethorizonethane 1,1-ethorizonethane 1,1-ethorizonethane 1,1-ethorizonethane 1,2-ethorizonethane 1,2-ethorizonethane 1,2-ethorizonethane 1,2-ethorizonethane	MG/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg	1 1 1 1 1 1 5						300 15000 30	-	-			-	-	<5 <0.005 <1 <1 <1 <1 <1	<5 <0.005 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	
Other chiorinated hydrocarbons (Total) 1.1.1-2-teriza/horosethane 1.1.1-3-teriza/horosethane 1.1.2-1-2-teriza/horosethane 1.1.2-1-2-teriza/horosethane 1.1.2-1-2-teriza/horosethane 1.1.2-1-2-teriza/horosethane 1.1.2-teriza/horosethane 1.2-4-teriza/horosethane 1.2-4-teriza/horosethane 1.2-4-teriza/horosethane	MG/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg	1 1 1 1 1 1 5 1 5		170	85			15000		-			-	-	<5 <0.005 <1 <1 <1 <1 <1 <1 <5 <5 <1	<5 < 0.005 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 <	
Differ of Informated hydrocarbons (Total) 1,1-11-detral/notoethane 1,1-1-informated hydrocarbons 1,1-2-informated hydrocarbons 1,2-2-informated hydrocarbons	MG/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg	1 1 1 1 1 1 5 1 5		170	85			15000					-	-	<5 <0.005 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<5 <0.005 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <5 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	
Other chiorinated hydrocarbona (Tota) 1,1,1-letrianocethane 1,1,1-letrianocethane 1,1,1-letrianocethane 1,1,2-letrianocethane 1,1,2-letrianocethane 1,1,2-letrianocethane 1,1,2-letrianocethane 1,1,2-letrianocethane 1,1,2-letrianocethane 1,1,2-letrianocethane 1,1,2-letrianocethane 1,2-dichioropropane 1,2-dichioropropane 1,2-dichioropropane 1,2-dichioropropane 1,3-dichioropropane	MG/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	1 1 1 1 1 1 5 1 5 1 5		170	85			15000					-	-	<pre></pre>	<pre><5 <0.005 <<1 <1 /pre>	
Differ chlorinated hydrocarbons (Total) 1.1-12-fetra/horoethane 1.1-1-trichnorethane 1.1-1-trichnorethane 1.1-2-trichnorethane 1.1-2-trichnorethane 1.1-2-trichnorethane 1.1-2-trichnorethane 1.1-2-trichnorethane 1.1-2-trichnorethane 1.1-2-trichnorethane 1.1-2-trichnorethane 1.2-drichnorethane 1.2-drichnorethane 1.2-drichnorethane 1.2-drichnorethane 1.2-drichnorethane 1.2-drichnorethane 1.2-drichnorethane 1.3-drichnorethane 1.3-drichnorethane 1.4-drichnorethane 1.4-drichnorethane 1.4-drichnorethane	MG/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg	1 1 1 1 1 1 5 1 5 1 5 1 1		170	85			15000 30					-	-	<5 <0.005 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<5 <0.005 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <p< td=""><td></td></p<>	
Differ of Inciniated hydrocarbons (Total) 1,1-13-ctertas/Docenhame 1,1-13-ctertas/Docenhame 1,1-13-ctertas/Docenhame 1,1-23-ctertas/Docenhame 1,1-24-ctertas/Docenhame 1,1-24-ctertas/Docenhame 1,1-24-ctertas/Docenhame 1,1-24-ctertas/Docenhame 1,2-4-ctertas/Docenhame 1,2-	MG/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg	1 1 1 1 1 5 1 5 1 1 1 1 1 5 2		170	85			15000 30					-	-	<5 <0.005 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<5 <0.005 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <p< td=""><td></td></p<>	
Differ chlorinated hydrocarbons (Total) 1.1-12-tetrachromen 1.1-13-tetrachromen 1.1-13-tetrachromen 1.1-2-tetrachromen 1.2-2-tetrachromen 1.2-2-tetrachromen 1.2-2-tetrachromen 1.2-2-tetrachromen 1.3-2-tetrachromen 1.3-2-te	MG/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg	1 1 1 1 1 1 5 1 1 1 1 1 1 1 1 1 5 2 5 5 5 5		170	85			15000 30					-	-	45 40 40 40 40 40 40 40	45 40,005 41,005 41 <td></td>	
Differ of Informated hydrocarbons (Total) 1,1-11-detral consentance 1,1-1-11-detral consentance 1,1-1-11-detral consentance 1,1-2-11-detral consentance 1,1-2-11-detral consentance 1,1-2-detral consentance 1,1-2-detral consentance 1,1-2-detral consentance 1,1-2-detral consentance 1,1-2-detral consentance 1,2-detral conse	MG/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg	1 1 1 1 1 5 1 1 1 1 1 1 1 1 1 5 2 2 5 1 1		170	85			15000 30					-		45 40005 41 41 41 41 41 41 41 41 41 41 41 41 41		
Other chlorinated hydrocarbons (Total) 1.1.1-sterian/horoethane 1.1.1-sterian/horoethane 1.1.2-sterian/horoethane 1.1.2-sterian/horoethane 1.1.2-sterian/horoethane 1.1.2-sterian/horoethane 1.1.2-sterian/horoethane 1.1-dichloroethane 1.1-dichloroethane 1.1-dichloroethane 1.2-dichloroethane	MG/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg	1 1 1 1 1 1 5 1 5 1 1 1 1 1 1 1 5 2 5 1 1 1 1		170	85			15000 30					-		45 40 40 40 40 40 40 40	45 40,005 41,005 41 <td></td>	
Differ chlorinated hydrocarbons (Total) 1,11-lettorschame 1,11-lettorschame 1,11-lettorschame 1,12-lettorschame 1,12-lettorschame 1,12-lettorschame 1,12-lettorschame 1,1-dichlorosethame 1,1-dichlorosethame 1,1-dichlorosethame 1,1-dichlorosethame 1,1-dichlorosethame 1,2-dichlorosethame	MG/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg	1 1 1 1 1 1 5 1 5 1 1 1 1 1 1 1 5 5 1 1 1 1 5 5 1		170	85			15000 30					-		45 41 41 41 41 41 41 41 41 41 41 41 41 41	c c c c c c c c c c c c c	
Other chrismated hydrocarbons (Total) 1.1.1-2-terison/borethane 1.1.1-1-2-terison/borethane 1.1.1-2-terison-terisone 1.1.2-2-terison-terisone 1.1.2-2-terison-terisone 1.1.2-2-terison-terisone 1.1.2-terison-terisone 1.1.2-terison-terisone 1.1-2-terison-terisone 1.1-2-terison-terisone 1.1-2-terison-terisone 1.2-terison-terisone 1.2-terison-teris	MGL µgiL	1 1 1 1 1 1 5 5 1 1 1 1 1 5 5 1 1 1 1 1		170	85			15000 30					-		-55555555	45 40 505	
Differ of Informated hydrocarbons (Total) 1,1-11-chteral contentane 1,1-1-retinocerbane 1,1-1-retinocerbane 1,1-2-retinocerbane 1,1-2-retinocerbane 1,1-2-retinocerbane 1,1-2-retinocerbane 1,1-2-retinocerbane 1,1-2-retinocerbane 1,1-2-retinocerbane 1,1-2-retinocerbane 1,2-dichinocerbane	MGGL 1991.	1 1 1 1 1 1 5 1 5 1 1 1 1 1 1 1 1 5 2 2 5 1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0		170	85			15000 30					-		45 41 41 41 41 41 41 41 41 41 41 41 41 41	c c c c c c c c c c c c c	
Other chiorinated hydrocarbons (Total) 1.1.1-2 tetral chiorinated hydrocarbons (Total) 1.1.1-2 tetral chiorinoethane 1.1.2-1 tetral chiorinoethane 1.1.2-2 tetral chiorinoethane 1.1.2-2 tetral chiorinoethane 1.1.2-3 tetral chiorinoethane 1.1.3-3 tetral chiorinoethane 1.1.4-3 tetral chiorinoethane 1.2-4 dischlorobenzene 1.4-4 dischlorobenzene 1	MG/L 1901. 1	1 1 1 1 1 1 1 5 5 1 1 1 1 5 5 1 1 1 1 1		170	85			15000 30					-		-55555555	45 40 505	
Other chrismated hydrocarbona (Total) 1.1.1-laterian/corethanee 1.1.1-laterian/corethanee 1.1.1-laterian/corethanee 1.1.2-laterian/corethanee 1.1.2-laterian/corethanee 1.1.2-laterian/corethanee 1.1.2-laterian/corethanee 1.1.2-dichloropropanee 1.2-dichloropropanee 1.2-dichloropropanee 1.2-dichloropropanee 1.2-dichloropropanee 1.2-dichloropropanee 1.2-dichloropropanee 1.2-dichloropropanee 1.2-dichloropropanee 1.2-dichloropropanee 1.3-dichloropropanee	MGGL 1991.	1 1 1 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1		170	85			15000 30					-			e5 e5 e5 e5 e5 e5 e5 e5	
Other chlorinated hydrocarbons (Total) 1.1.1.3-telrato/horosthane 1.1.1.3-telrato/horosthane 1.1.1.3-telrato/horosthane 1.1.2.3-telrato/horosthane 1.1.2.3-telrato/horosthane 1.1.2.3-telratorosthane 1.1.3-telratorosthane 1.1.3-telratorosthane 1.1.3-telratorosthane 1.1.3-telratorosthane 1.3-destorosthane 1.3-destorosth	MG/L 1901.	1 1 1 1 1 1 5 5 1 1 1 1 1 1 1 1 1 1 1 1		170	85			15000 30					-		-55555555	c c c c c c c c c c c c c	
Other chlorinated hydrocarbona (Total) 1.1.5-detrachoreshane 1.1.5-detrachoreshane 1.1.5-detrachoreshane 1.1.5-detrachoreshane 1.1.2-detrachoreshane 1.1.2-detrachoreshane 1.1.2-detrachoreshane 1.1.2-detrachoreshane 1.1.4-dichloropropeane 1.2-detrachoreshane 1.2-detrachoreshane 1.2-detrachoreshane 1.2-dichloropropeane 1.2-dichloropropeane 1.2-dichloropropeane 1.2-dichloropropeane 1.2-dichloropropeane 1.2-dichloropropeane 1.2-dichloropropeane 1.3-dichloropropeane 1.3-d	MG/L 1901.	1 1 1 1 1 1 5 1 1 5 1 1 1 1 1 1 1 1 1 1		170	85			15000 30					-			c c c c c c c c c c c c c	
Other richiorisated hydrocarbons (Total) 1.1,1-2-terisofhoreshane 1.1,1-3-terisofhoreshane 1.1,1-3-terisofhoreshane 1.1,2-3-terisofhoreshane 1.1,2-3-terisofhoreshane 1.1,2-3-terisofhoreshane 1.1,2-3-terisofhoreshane 1.1-3-dishoreshane 1.1-3-dishoreshane 1.3-dishoreshane 1.3-1.3-dishoreshane	MG/L 1901. 190	1 1 1 1 1 1 5 5 1 1 1 1 1 1 1 1 1 1 1 1		170	85			15000 30					-		-55555555	c c c c c c c c c c c c c	
Other chlorinated hydrocarbons (Total) 1,1,2-tetrachloroethane	MG/L 1901.	1 1 1 1 1 1 5 1 5 1 1 1 1 1 1 1 1 1 1 1		170	85			15000 30 400					-		-55555555	c c c c c c c c c c c c c	



								Location Code	NEL-BH040	NEL-BH040A	NEL-BH044	NEL-BH059	NEL-BH060	NEL-BH062	NEL-BH062	NEL-BH062A	NEL-BH062B	NEL-BH062B
								Field ID	NEL-BH040 / 120218						NEL-BH062 / 140218	NEL-BH062 A / 160218		NEL-BH062 B / 140218
								Date	12/02/2018	12/02/2018	13/02/2018	13/02/2018	14/02/2018	8/03/2018	14/02/2018	16/02/2018	8/03/2018	14/02/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
						1		Lab Report Number	584938	584938	584938	584938	584987 / EM1802989	588501	584987 / EM1802989	585329 / EM1802989	588501	584987 / EM1802989
			ANZECC 2000 -			PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational										
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008		1	1	1	1		1	1	1	1
PFAS																		
Perfluorodecanesulfonic acid (PFDS)	μg/L	0.002							-	-	-	-	-	< 0.01	-	< 0.01	< 0.01	-
Perfluoro-n-hexadecanoic acid (PFHxDA)	μg/L	0.005							-	-	-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	μg/L	0.002							-	-	-	-	-	< 0.01	-	0.02	< 0.01	-
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	μg/L	0.002							-	-	-	-	-	< 0.05	-	< 0.05	< 0.05	-
N-Methyl perfluorooctane sulfonamidoethanol	μg/L	0.005							-	-	-	-	-	< 0.05	-	< 0.05	< 0.05	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	μg/L	0.01							-	-	-	-	-	-	-	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	μg/L	0.01								-	-	-	-	-	-	-	-	-
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	μg/L	0.005							-	-	-	-	-	< 0.01	-	< 0.01	< 0.01	-
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	μg/L	0.005							-	-	-	-	-	< 0.01	-	< 0.01	< 0.01	-
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	μg/L	0.002							-	-	-	-	-	< 0.05	-	< 0.05	< 0.05	-
Perfluorobutane sulfonic acid (PFBS)	μg/L	0.002							-	-	-	-	-	< 0.01	-	0.38	< 0.01	-
Perfluoropentanoic acid (PFPeA)	μg/L	0.002							-	-	-	-	-	< 0.01	-	0.06	< 0.01	-
Perfluorohexane sulfonic acid (PFHxS)	μg/L	0.002								-	-	-	-	< 0.01	-	1.1	< 0.01	-
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	μg/L	0.005							-	-	-	-	-	<0.01	-	< 0.01	< 0.01	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	μg/L	0.005							-	-	-	-	-	< 0.05	-	< 0.05	< 0.05	-
N-Ethyl perfluorooctane sulfonamidoethanol	μg/L	0.005							-	-	-	-	-	< 0.05	-	<0.05	< 0.05	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	μg/L	0.005							-	-	-	-	-	< 0.05	-	<0.05	< 0.05	-
6:2 Fluorotelomer Sulfonate (6:2 FTS)	μg/L	0.005								-		-	-	< 0.05		< 0.05	< 0.05	
Perfluorooctanoic acid (PFOA)	μg/L	0.002				19			-	-	-	-	-	< 0.01	-	0.06	< 0.01	-
Perfluoropentane sulfonic acid (PFPeS)	μg/L	0.002							-	-		-		< 0.01		0.32	< 0.01	-
Perfluorobutanoic acid (PFBA)	μg/L	0.01							-	-	-	-	-	< 0.05	-	< 0.05	< 0.05	-
Perfluorodecanoic acid (PFDA)	μg/L	0.002								-	-	-	-	< 0.01	-	< 0.01	< 0.01	-
Perfluorododecanoic acid (PFDoDA)	μg/L	0.002							-	-	-	-	-	< 0.01	-	< 0.01	< 0.01	-
Perfluoroheptanoic acid (PFHpA)	μg/L	0.002							-	-	-	-	-	< 0.01	-	0.05	< 0.01	-
Perfluorohexanoic acid (PFHxA)	μg/L	0.002								-	-	-	-	< 0.01	-	0.25	< 0.01	-
Perfluorononanoic acid (PFNA)	μg/L	0.002								-		-	-	< 0.01	-	< 0.01	< 0.01	-
Perfluorooctane sulfonic acid (PFOS)	μg/L	0.002				0.00023			-	-		-		< 0.01	-	0.13	< 0.01	-
Perfluorooctane sulfonamide (FOSA)	μg/L	0.002								-	-	-	-	< 0.05	-	< 0.05	< 0.05	-
Perfluorotetradecanoic acid (PFTeDA)	μg/L	0.005								-	-		-	<0.01	-	<0.01	<0.01	-
Perfluorotridecanoic acid (PFTrDA)	μg/L	0.002												<0.01		<0.01	<0.01	
Perfluoroundecanoic acid (PFUnDA)	μg/L	0.002												<0.01		<0.01	<0.01	
PFAS (Sum of Total)	μg/L	0.002												<0.1		2.37	<0.1	
PFAS (Sum of Total)(WA DER List)	μg/L	0.002												<0.05		2.03	<0.05	
Sum of PFHxS and PFOS	μg/L	0.002							-	-	-		-	<0.01	-	1.23	<0.00	
PH	pgr	0.002										_		-0.01	+	1.20	-0.01	<u> </u>
Oil & Grease	mg/L	10												<10			<10	· .
Biological	ingre													-10			-10	
Sulfate Reducing Bacteria Population Estimate	pac/mL	20											27,000		27,000	6,000		320
Sulfate Reducing Bacteria Aggressivity	-	1							-				1		1	1		1
Chlorinated Hydrocarbons	-												- '		· ·	· ·		'
Chlorinated hydrocarbons EPAVic	μg/L	5														<5	_	
Other chlorinated hydrocarbons (Total)	MG/L	Ü													+	<0.005		<u> </u>
1,1,1,2-tetrachloroethane	μg/L	- 4							-		-		-		_	<0.000		
1,1,1-trichloroethane	μg/L	1									-	-		1	-	<1	-	-
1,1,2,2-tetrachloroethane	µg/L	1							-		-		-		-	<1		-
1,1,2-richloroethane	μg/L	1		6500	5400				-	-	-	-	-		-	<1	-	-
1.1-dichlomethene		1		0000	0.00			300	-	-	-		-			<1	-	-
1,1-dichloropropene	μg/L μg/L	5						300		+ - :	1	+	+	+ :	+		-	
		1			0.5					+	+	+	+		+ -	<5	e1	
1,2,4-trichlorobenzene	μg/L ug/l			170	85						-	-	1	- 1			_	
1,2-dibromo-3-chloropropane	μg/L	5						15000	-	-	-	-	-	-	-	-	-	-
1,2-dibromo-3-chloropropane 1,2-dichlorobenzene	μg/L μg/L	5		160	120			15000	-	-	-	-	-			- <1	<1	-
1,2-dibromo-3-chloropropane 1,2-dichlorobenzene 1,2-dichloroethane	μg/L μg/L μg/L	5 1 1						15000 30	:	-		-		<1	-	- ल ल	- <1 -	-
1,2-dibromo-3-chloropropane 1,2-dichlorobenzene 1,2-dichloropropane 1,2-dichloropropane	µg/L µg/L µg/L µg/L	5 1 1							-	-	-	-	-	-	-	- ব ব	-	-
1.2-dichromo-3-chloropropane 1.2-dichlorobenzene 1.2-dichloropropane 1.3-dichloropropane 1.3-dichloropropane	μg/L μg/L μg/L μg/L μg/L	5 1 1 1		160	120			30	-	-	-		-		-	- - 	-	
1,2-dibromo-3-chloropropane 1,2-dichloroberzene 1,2-dichloroberzene 1,2-dichloropropane 1,3-dichloropropane 1,4-dichloroberzene	μg/L μg/L μg/L μg/L μg/L μg/L	5 1 1							-	-	-	-	-	-		- ব ব	-	-
12-dishnora-d-thiropropane 1,2-dishnora-propane 1,2-dishnora-propane 1,2-dishnora-propane 1,3-dishnora-propane 1,3-dishnora-propane 1,3-dishnora-propane 1,3-dishnora-propane	μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1 1 1 1 1 1 5		160	120			30	-	-		-	-	<1		- <1 <1 <1 <1		-
1.2-disron-3-chiorpropare 1.2-dishoretamen 1.2-dishoretamen 1.2-dishoretamen 1.3-dishoretamen 1.3-dishoretamen 1.3-dishoretamen 2.3-dishorepropare 2.3-dishorepropare 2.3-dishorepropare 2.3-dishorepropare	µg/L µg/L µg/L µg/L µg/L µg/L µg/L	5 1 1 1 1 1 1 5		160	120			30	-	-	-	-	-	-		- - 	-	-
12-dehron-3-dhiorpropane 13-dehlonethere 13-dehlonethere 13-dehlonethere 13-dehlonethere 13-dehlonethere 13-dehlonethere 13-dehlonethere 23-dehlonethere 23-dehlonethere 23-dehlonethere 23-dehlonethere 2-dehlonethere	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	5 1 1 1 1 1 1 5 2		160	120			30	-	-		-	-	<1	-	- e1 e1 e1 e1 e1 e1 e1 e1 e1 e1 e5 e 5		-
1.2-disron-3-chiorpropare 1.2-dishorethere 1.2-dishorethere 1.2-dishorethere 1.3-dishorethere 1.3-dishorethere 1.3-dishorethere 2.3-dishorethere 2.3-dishorethere 2.3-dishorethere 2.3-dishorethere 2.3-dishorethere 2.3-dishorethere 2-distoratione	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	5 1 1 1 1 1 1 5 2 5		160	120			30		-	- - - -	- - - - -	-	- - <1 - <5 -		- e1 e1 e1 e1 e1 e1 e1 e1 e1 e1 e1 e1 e1	<1	-
12-dehoros-achinogropane 13-dehoros-teme 13-de	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1 1 1 1 1 1 5 2 5 1		160	120			30	-	-	-	-	-	- - <1 - <5 -		- e1 e1 e1 e1 e1 e1 e1 e1 e1 e1 e5 e 5	<pre> -</pre>	-
1.2-discon-3-chiospropare 1.2-dischiosperane 1.2-dischiosperane 1.2-dischiosperane 1.2-dischiosperane 1.3-dischiosperane 1.3-dischiosperane 1.3-dischiosperane 1.3-dischiosperane 2.2-dischiosperane 2.2-dischiosperane 2-discondatione 4-discondatione 4-discondatione 5-discondatione 5-di	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	5 1 1 1 1 1 1 5 2 5		160	120			30		-	- - - -	- - - - -	-	- - <1 - <5 -		- e1 e1 e1 e1 e1 e1 e1 e1 e1 e1 e1 e1 e1	<1	-
12-dehron-3-dhiorpropane 12-dehrone-temene 13-dehrone-temene 13-dehrone-temen 13-dehrone-temen 13-dehrone-temen 13-dehrone-temen 13-dehrone-temene 13-dehron	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1 1 1 1 1 1 5 2 5 1 0.1 0.1		160	120			30		-	- - - -	- - - - -	-	- - <1 - <5 -			<pre> -</pre>	-
1.2-disrono-3-chiorpropare 1.2-dishlorosterae 1.2-dishlorosterae 1.2-dishlorosterae 1.3-dishlorosterae 1.3-dishlorosterae 1.3-dishlorosterae 2.3-dishlorosteraee 2.2-dishlorosteraee 2.2-dishlorosteraee 2.2-dishlorosteraee 2-dislorosteraee 2-dislorosteraee 8-dislorosteraee	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	5 1 1 1 1 1 1 5 2 5 1 0.1 0.1		160	120			30		-	- - - -	- - - - -	-	- - <1 - <5 -			<pre> -</pre>	-
12-dehron-3-dhiorporpane 12-dehron-temene 13-dehron-temene 13-dehron-temene 13-dehron-temene 13-dehron-temene 13-dehron-temene 13-dehron-temene 13-dehron-temene 23-dehron-temene 23-dehron-temene 23-dehron-temene 23-dehron-temene 23-dehron-temene 23-dehron-temene 23-dehron-temene 23-dehron-temene 23-dehron-temene 24-dehron-temene 24-dehron-temene 25-dehron-temene μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1 1 1 1 1 1 5 2 5 1 1 0.1 0.1 1 1		160	120			30		-	- - - -	- - - - -	-	- - <1 - <5 -			<pre> -</pre>		
12-detrom-3-drinorpropane 12-deschiorsetame 12-deschiorsetame 13-deschiorsetame 13-deschiorsetame 13-deschiorsetame 13-deschiorsetame 13-deschiorsetame 22-deschiorsetame 22-deschiorsetame 22-deschiorsetame 2-desconsetame 2-desconsetame 8-desconsetame 8-desconse	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	5 1 1 1 1 1 1 5 2 5 1 0.1 0.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		160	120			30		-	- - - -	- - - - -	-	- - <1 - <5 -			<pre> -</pre>	
12-dehron-3-chiloropropane 12-dehronetheme 12-dehronetheme 13-dehronetheme 13-dehronetheme 13-dehronetheme 13-dehronetheme 13-dehronetheme 13-dehronetheme 22-dehronetheme 22-dehronetheme 22-dehronetheme 22-dehronetheme 22-dehronetheme 22-dehronetheme 23-dehronetheme 24-dehronetheme 24-dehronetheme 25-dehronetheme 25-	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1 1 1 1 1 1 5 2 5 1 1 0.1 0.1 1 1		160	120			30		-	- - - -	- - - - -	-	- - <1 - <5 -			<pre> -</pre>	
1,2 dibrono-3-chiorporpane 1,2 dichloroseme 1,2 dichloroseme 1,2 dichloroseme 1,3 dichloroseme 1,3 dichloroseme 1,3 dichloroseme 1,3 dichloropropane 2,3 dichloropropane 2,4 dichloropropane 2,4 dichloropropane 2,4 dichloropropane 2-chlororotulene 4-chlorotulene 8-chlorotulene 8-chlorotulene 8-chlorosemene 8-conscientionide 8-conscientide 8-conscientioni	190 L 190 L	5 1 1 1 1 1 1 5 2 5 1 0.1 0.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		160	120			30	-	-	- - - -	- - - - -	-	- - <1 - <5 -			<pre> -</pre>	
1.2 dibromos-achitorpropane 1.2 dichloroseture 1.2 dichloroseture 1.2 dichloroseture 1.3 dichloroseture 1.3 dichloroseture 1.3 dichloroseture 1.3 dichloroseture 2.4 dichloroseture 2.4 dichloroseture 2.4 dichloroseture 2.4 dichloroseture 2.4 dichloroseture 2.4 dichloroseture 2.4 dichloroseture 2.4 dichloroseture 2.4 dichloroseture 2.4 dichloroseture 2.5 dichloroseture 2.5 dichloroseture 2.6 dichloroseture 2.7	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	5 1 1 1 1 1 1 5 2 5 1 0.1 0.1 1 1 1 1 5 5 2 1 0.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		160	120			30		-	-	-		<pre></pre>			<1	
1.2 dibromos-1-chiropropane 1.2 dichiroperane 1.2 dichiroperane 1.3 dichiroperane 1.3 dichiroperane 1.3 dichiroperane 1.3 dichiroperane 2.2 dichiroperane 2.2 dichiroperane 2.2 dichiroperane 2.4 dichiroperane 2.4 dichiroperane 2.4 dichiroperane 2.4 dichiroperane 2.4 dichiroperane 2.4 dichiroperane 2.4 dichiroperane 3.4 dichiroperane 3.4 dichiroperane 3.5 dichiroperane 3.6 dichiroperane 3.6 dichiroperane 3.7 dichiroperane 3.7 dichiroperane 3.8 dichiroperane 3.8 dichiroperane 3.8 dichiroperane 3.8 dichiroperane 3.8 dichiroperane 3.8 dichiroperane 3.9 dichiroperane 3.0 dichiroperane 3.	190 L 190 L	5 1 1 1 1 1 1 5 2 5 1 1 0.1 0.1 1 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1		160	120			30			-	-		<pre></pre>			<1	
1.2 dibromos-dibrogropane 1.2 dichlorosterane 1.2 dichlorosterane 1.2 dichlorosterane 1.3 dichlorosterane 1.3 dichlorosterane 1.3 dichlorosterane 1.3 dichlorosterane 2.2 dichlorosterane 2.2 dichlorosterane 2.2 dichlorosterane 2.2 dichlorosterane 2.2 dichlorosterane 2.2 dichlorosterane 2.2 dichlorosterane 2.2 dichlorosterane 2.2 dichlorosterane 2.2 dichlorosterane 2.2 dichlorosterane 3.2 dichlorosterane 3.2 dichlorosterane 3.2 dichlorosterane 3.3 dichlorosterane 3.4 dichlorosterane 3.4 dichlorosterane 3.4 dichlorosterane 3.5 dichlorosterane	pg/L pg/L pg/L pg/L pg/L pg/L pg/L pg/L	5 1 1 1 1 1 1 5 2 5 1 0.1 0.1 1 1 1 1 1 0.1 1 1 1 1 1 1 1 1		160	120			400			-	-		<pre></pre>			<1	



								Location Code	NEL-BH064	NEL-BH070	NEL-BH071	NEL-BH072	NEL-BH076	NEL-BH076A	NEL-BH078
								Field ID	NEL-BH064 / 140218	NEL-BH070 / 120218	NEL-BH071/170418	NEL-BH072 / 120218	NEL-BH076/170418	NEL-BH076A/170418	NEL-BH078/170418
								Date	14/02/2018	12/02/2018	17/04/2018	12/02/2018	17/04/2018	17/04/2018	17/04/2018
								Sample Type	Normal						
		_	ANZECC 2000 -	ANIZECC 2000	AN7ECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	Lab Report Number NHMRC Recreational	584987 / EM1802989	584938	594757 / EM1806408	584938	594757 / EM1806408	594757 / EM1806408	594757 / EM1806408
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008							
PFAS			Otook Watering	1 11 30 %	1 11 00 70	Treshwater 55%	Long term ringger values	Cuidelines 2000		1	1			1	1
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.002								-	-	-		-	-
Perfluoro-n-hexadecanoic acid (PFHxDA)	μg/L	0.005							-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	μg/L	0.002							-	-	-	-	-	-	-
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	μg/L	0.002							-	-	-	-	-	-	-
N-Methyl perfluorooctane sulfonamidoethanol	μg/L	0.005							-	-	-	-	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	μg/L	0.01							-	-	-	-	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	μg/L	0.01							-	-	-	-	-	-	-
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	μg/L	0.005							-	-	-	-	-	-	-
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	μg/L	0.005							-	-	-	-	-	-	-
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA) Perfluorobutane sulfonic acid (PFBS)	µg/L	0.002							-	-	-	-	-		-
Perfluoropentanoic acid (PFPeA) Perfluoropentanoic acid (PFPeA)	μg/L μg/L	0.002							-	-	-	-	-	-	-
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.002							-	-	-	-	-	-	-
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.002								-	-	-	-	-	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	μg/L	0.005							-	-	-	-			-
N-Ethyl perfluorooctane sulfonamidoethanol	μg/L	0.005							-	-	-	-	-	-	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	μg/L	0.005								-	-	-	-	-	-
6:2 Fluorotelomer Sulfonate (6:2 FTS)	μg/L	0.005								-	-	-	-	-	-
Perfluorooctanoic acid (PFOA)	μg/L	0.002				19			-	-	-	-	-	-	-
Perfluoropentane sulfonic acid (PFPeS)	μg/L	0.002							-	-	-	-	-	-	-
Perfluorobutanoic acid (PFBA)	μg/L	0.01							-	-	-	-	-	-	-
Perfluorodecanoic acid (PFDA)	μg/L	0.002							-	-	-	-	-	-	-
Perfluorododecanoic acid (PFDoDA)	μg/L	0.002							-	-	-	-	-	-	-
Perfluoroheptanoic acid (PFHpA)	μg/L	0.002							-	-	-	-	-	-	-
Perfluorohexanoic acid (PFHxA)	μg/L	0.002							-	-	-	-	-	-	-
Perfluorononanoic acid (PFNA)	μg/L	0.002							-	-	-	-	-	-	-
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.002				0.00023			-	-	-	-	-	-	-
Perfluoroctane sulfonamide (FOSA) Perfluorotetradecanoic acid (PFTeDA)	μg/L	0.002							-	-	-	-	-	-	-
Perfluorotridecanoic acid (PFTeDA) Perfluorotridecanoic acid (PFTrDA)	μg/L μg/L	0.005							-	-	-	-	-	-	-
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.002							-	-	-	-	-	-	
PFAS (Sum of Total)	µg/L	0.002							-	-	-	-	-	-	-
PFAS (Sum of Total)(WA DER List)	µg/L	0.002								-				-	
Sum of PFHxS and PFOS	μg/L	0.002								-	-	-	-		-
TPH	P0"-														
Oil & Grease	mg/L	10							-	-	-	-	-		-
Biological															
Sulfate Reducing Bacteria Population Estimate	pac/mL	20							27,000	-	6,000	-	<20	6,000	27,000
Sulfate Reducing Bacteria Aggressivity	-	1							1	-	1	-	1	1	1
Chlorinated Hydrocarbons															
Chlorinated hydrocarbons EPAVic	μg/L	5							-	-	-	-	-	-	-
Other chlorinated hydrocarbons (Total)	MG/L								-	-	-	-	-	-	-
1,1,1,2-tetrachloroethane	μg/L	1							-	-		-	-		-
1,1,1-trichloroethane	µg/L	1							-	-	-	-	-	-	-
1,1,2,2-tetrachloroethane 1,1,2-trichloroethane	μg/L μg/L	1		6500	5400				-	-	-	-	-	-	-
1,1,2-trichloroethane 1,1-dichloroethane	μg/L μg/L	1		0300	3400			300		-	-	-	-	-	-
1,1-dichloropropene	µg/L µg/L	5						300	-	-	-	-	-	-	-
1,2,4-trichlorobenzene	μg/L	1		170	85				-	-	-	-	-	<u> </u>	-
1,2-dibromo-3-chloropropane	μg/L	5							-	-	-	-	-	-	-
1,2-dichlorobenzene	μg/L	1		160	120			15000		-	-	-	-	-	-
1,2-dichloroethane	μg/L	1						30	-	-	-	-	-	-	-
1,2-dichloropropane	μg/L	1							-	-	-	-	-	-	-
1,3-dichloropropane	μg/L	1								1 -		1 -	1	1	1
1,4-dichlorobenzene	μg/L	- 1		60	40			400	-	-	-	-	-	-	-
2,2-dichloropropane	μg/L	5							-	-	-	-	-	-	-
2-chloronaphthalene	μg/L	2							-	-	-	-	-	-	-
2-chlorotoluene 4-chlorotoluene	µg/L	5							-	-	-	-	-	-	-
	µg/L								-	-	-	-	-	- -	-
Benzal Chloride Benzotrichloride	µg/L	0.1							-	-	-	-	-	-	-
Bromohenzene Bromohenzene	μg/L μg/L	0.1								-	-	-	-	-	-
Bromochloromethane	µg/L µg/L	1								-	-	-	-	-	-
Carbon tetrachloride	µg/L	1								1	1	1	1 :	1 :	1 1
Chlorobenzene	µg/L	1									1	1	1 - 1	+ :	1
Chloroform	µg/L	5							-	-	-	-	-	-	-
Chloromethane	µg/L	1							-	-	-	-	-		-
cis-1,2-dichloroethene	µg/L	1							-	-	-	-	-	-	-
Dichloromethane	μg/L	1						40	-	-	-	-	-	-	-
Hexachlorobutadiene	μg/L	0.1						7	-	-	-	-	-	-	-
Vinyl chloride	μg/L	1						3	-	-	-	-	-	-	-
1	•	-				•	•	•	•		•	•	•	•	•



								Location Code	NEL-BH083	NEL-BH086	NEL-BH086	NEL-BH086	NEL-BH087	NEL-BH088	NEL-BH089	NEL-BH091	NEL-BH093
								Field ID	NEL-BH083 / 160418	NEL-BH086 / 120718	QC1 / 120718	QC2/120718	NEL-BH087 / 120718	NEL-BH088 / 120718	NEL-BH089 / 120718	NEL-BH091/160218	NEL-BH093 / 160418
								Date	16/04/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	16/02/2018	16/04/2018
								Sample Type	Normal	Normal	Field_D	Field_D	Normal	Normal	Normal	Normal	Normal
								Lab Report Number	594417 / EM1806339	607533 / EM1811208	607533	EM1811208	607533 / EM1811208	607533 / EM1811208	607533 / EM1811208	585329 / EM1803154	594417 / EM1806339
							ANZECC 2000 Irrigation -	NHMRC Recreational			•	•	•	•	•	•	•
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008									
PFA8																	
Perfluorodecanesulfonic acid (PFDS)	μg/L	0.002							-	< 0.01	< 0.01	< 0.05	< 0.01	<0.01	<0.01	<0.01	-
Perfluoro-n-hexadecanoic acid (PFHxDA) Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.005							-	-	-	-	-	-	-	-	-
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.002							-	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	-
N-Methyl perfluorooctane sulfonamidoaceiic acid (Etrosaa)	μg/L μg/L	0.002							-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.01								<0.01	<0.01	-0.12	<0.01	<0.01	<0.01	-0.00	
Sum of US EPA PFAS (PFOS + PFOA)*	µg/L	0.01							-	< 0.01	<0.01	-	<0.01	<0.01	<0.01	-	-
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.005							-	< 0.01	< 0.01	<0.05	< 0.01	<0.01	< 0.01	< 0.01	-
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	μg/L	0.005							-	< 0.01	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	-
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	μg/L	0.002							-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-
Perfluorobutane sulfonic acid (PFBS)	μg/L	0.002							-	< 0.01	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01	<0.01	-
Perfluoropentanoic acid (PFPeA)	μg/L	0.002							-	<0.01	<0.01	<0.05	< 0.01	<0.01	<0.01	<0.01	-
Perfluorohexane sulfonic acid (PFHxS)	μg/L	0.002							-	< 0.01	< 0.01	< 0.05	< 0.01	<0.01	<0.01	<0.01	-
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.005							-	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	-
N-Ethyl perfluorooctane sulfonamide (EtFOSA) N-Ethyl perfluorooctane sulfonamidoethanol	μg/L μg/L	0.005							-	<0.05	<0.05	<0.12 <0.12	<0.05	<0.05 <0.05	<0.05 <0.05	<0.05 <0.05	-
N-Ethyl perfluorooctane sulfonamide(MeFOSA)	µg/L µg/L	0.005							-	<0.05 <0.05	<0.05 <0.05	<0.12	<0.05 <0.05	<0.05	<0.05 <0.05	<0.05	-
6:2 Fluorotelomer Sulfonate (6:2 FTS)	µg/L	0.005								<0.05	< 0.05	<0.12	<0.05	<0.05	<0.05	<0.05	1
Perfluorooctanoic acid (PFOA)	µg/L	0.002				19			-	<0.01	<0.01	<0.05	< 0.01	<0.01	<0.01	0.02	-
Perfluoropentane sulfonic acid (PFPeS)	μg/L	0.002							-	< 0.01	<0.01	<0.05	< 0.01	<0.01	<0.01	<0.01	-
Perfluorobutanoic acid (PFBA)	µg/L	0.01							-	<0.05	<0.05	<0.2	< 0.05	< 0.05	< 0.05	< 0.05	-
Perfluorodecanoic acid (PFDA)	μg/L	0.002							-	<0.01	< 0.01	< 0.05	< 0.01	<0.01	< 0.01	< 0.01	-
Perfluorododecanoic acid (PFDoDA)	μg/L	0.002							-	< 0.01	< 0.01	< 0.05	<0.01	<0.01	< 0.01	<0.01	-
Perfluoroheptanoic acid (PFHpA)	μg/L	0.002							-	< 0.01	< 0.01	< 0.05	< 0.01	<0.01	< 0.01	<0.01	-
Perfluorohexanoic acid (PFHxA)	μg/L	0.002							-	< 0.01	<0.01	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	-
Perfluorononanoic acid (PFNA)	μg/L	0.002							-	< 0.01	<0.01	<0.05	< 0.01	<0.01	<0.01	<0.01	-
Perfluorocctane sulfonic acid (PFOS) Perfluorocctane sulfonamide (FOSA)	μg/L	0.002				0.00023			-	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	-
Perfluoroctane sulfonamide (FOSA) Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.002							-	<0.05	<0.05	<0.05	< 0.05	< 0.05	< 0.05	<0.05	-
Perfluorotridecanoic acid (PFTrDA)	μg/L μg/L	0.003							-	<0.01	<0.01	<0.12	<0.01	<0.01	<0.01	<0.01	-
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.002							- :	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	
PFAS (Sum of Total)	µg/L	0.002								<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	
PFAS (Sum of Total)(WA DER List)	µg/L	0.002								< 0.05	<0.05	<0.05	< 0.05	<0.05	<0.05	< 0.05	-
Sum of PFHxS and PFOS	µg/L	0.002							-	< 0.01	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	-
TPH																	
Oil & Grease	mg/L	10							-	-	-	-	-	-	-	-	-
Biological																	
Sulfate Reducing Bacteria Population Estimate	pac/mL	20							1,400	320	-	320	120,000	120,000	120,000	27,000	120,000
Sulfate Reducing Bacteria Aggressivity	-	1							1	1	-	1	1	1	1	1	1
Chlorinated Hydrocarbons Chlorinated hydrocarbons EPAVic	ug/L	5								<5	<5		<5	<5	<5	<5	
Other chlorinated hydrocarbons (Total)	MG/L									<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	1
1,1,1,2-tetrachloroethane	µg/L	1							-	<1	<1	<5	<1	<1	<1	<1	-
1,1,1-trichloroethane	µg/L	- 1							-	<1	<1	<5	<1	<1	<1	<1	-
1,1,2,2-tetrachloroethane	μg/L	1							-	<1	<1	<5	<1	<1	<1	<1	-
1,1,2-trichloroethane	μg/L	1		6500	5400				-	<1	<1	<5	<1	<1	<1	<1	-
1,1-dichloroethene	µg/L	1						300	-	<1	<1	<5	<1	<1	<1	<1	-
1,1-dichloropropene	µg/L	5							-	1 -	-	<5	-	-	-	-	-
1,2,4-trichlorobenzene																	-
	µg/L	1		170	85				-	<5	<5	<2	<5	<5	<5	<5	
1,2-dibromo-3-chloropropane	μg/L	5						15000	-	<5	-	<5	-	<5	-	-	-
1,2-dibromo-3-chloropropane 1,2-dichlorobenzene	μg/L μg/L	5		170	120			15000	-	<5 - <1 <1	- <1	<5	- <1	<5 - <1 <1	- <1 <1	- <1	-
1,2-dibromo-3-chloropropane 1,2-dichlorobenzene 1,2-dichloroethane	μg/L μg/L μg/L	5 1 1						15000 30		<5 - <1 <1 <1	-	<5	-	<5 - <1 <1 <1		-	
1,2-dibromo-3-chloropropane 1,2-dichlorobenzene	μg/L μg/L	5								<1	- <1	<5 <2 <5	- <1 <1	<1	<1	- <1 <1	
1,2-dibromo-3-chloropropane 1,2-dichlorobenzene 1,2-dichloroethane 1,2-dichloropropane 1,3-dichloropropane	µg/L µg/L µg/L µg/L µg/L	5 1 1		160	120			30	-	<1	- <1 <1	<5 <2 <5 <5	- - 	<1 <1	<1 <1	<1 <1 <1	
1,2-dibromo-3-chloropropane 1,2-dichlorobenzene 1,2-dichloroethane 1,2-dichloropropane	µg/L µg/L µg/L µg/L	5 1 1 1 1 1 1 5								<1	- <1 <1	<5 <2 <5 <5	্ ব ব ব ব	<1 <1	<1 <1	<1 <1 <1 <1	-
1.2-disromo-3-chiorogropane 1.2-disrionosemen 1.2-disrionosemen 1.2-disrionosemen 1.3-disrionosemen 1.3-disrionosemen 1.3-disrionosemen 2.3-disrionosemen 2.3-disrionosemen 2.2-disrionosemen 2.2-disrionosemen 2.2-disrionosemen 2.2-disrionosemen 2.3-disrionosemen 3.3-disrionosemen 3.	µg/L µg/L µg/L µg/L µg/L µg/L µg/L	5 1 1 1 1 1 1 5		160	120			30		<1	- <1 <1	<5 <2 <5 <5	্ ব ব ব ব	<1 <1	<1 <1	<1 <1 <1 <1	
1.2-distromos-3-chicropropane 1.2-distritorobernae 1.2-distritorobernae 1.2-distritorobernae 1.3-distritoropropane 1.3-distritoropropane 1.4-distritorobernae 2.2-distritoropropane 2-chicropropane 2-chicropropane	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1 1 1 1 1 1 5 2		160	120			30		<td></td> <td>45 45 45 45 47 47 47 48</td> <td></td> <td>41 41 41 41 41 -</td> <td>d d d d d d d d d d d d d d d d d d d</td> <td>- < < < < < < < < < < < < < < < < < < <</td> <td></td>		45 45 45 45 47 47 47 48		41 41 41 41 41 -	d d d d d d d d d d d d d d d d d d d	- < < < < < < < < < < < < < < < < < < <	
1.2-disromo-3-chicorgroapee 1.2-disriono-temper 1.2-disriono-temper 1.2-disriono-temper 1.2-disriono-temper 1.3-disriono-temper µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	5 1 1 1 1 1 1 5 2 5		160	120			30	-	रा रा रा रा	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	5 2 5 5 4 2 2	- <1 <1 <1 <1 <1	त त त त	4 4 4 4			
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1.2-disromos 3-chioroprogane 1.2-disrionosemen 1.2-disrionosemen 1.2-disrionosemen 1.3-disrionosemen 1.3-disrionosemen 1.3-disrionosemen 1.3-disrionosemen 2.2-disrionosemen 2.2-disrionosemen 2.2-disrionosemen 2.2-disrionosemen 2.2-disrionosemen 2.2-disrionosemen 3.2-disrionosemen 3	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	5 1 1 1 1 1 1 5 2 5 1 0.1 0.1		160	120			30		<td></td> <td>45 45 45 45 47 47 47 48</td> <td></td> <td>41 41 41 41 41 -</td> <td>d d d d d d d d d d d d d d d d d d d</td> <td></td> <td></td>		45 45 45 45 47 47 47 48		41 41 41 41 41 -	d d d d d d d d d d d d d d d d d d d		
1.2-distromos 3-chicropropane 1.2-distritoropropane 1.2-distritoropropane 1.2-distritoropropane 1.3-distritoropropane 1.3-distritoropropane 1.4-distritoropropane 2distritoropropane 2distritoropropane 2distritoropropane 2distritoropropane 2distritoropropane 2distritoropropane 2distritoropropane 3distritoropropane 4distritoropropane 4distritoropropane Benzarichiorofe Benzarichiorofe Benzorichiorofe Benzorichiorofe	µg/L µg/L	5 1 1 1 1 1 5 2 5 1 0.1 0.1		160	120			30	-	c c c c c c c c		\$ Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q		61 61 61 61 63 65 65	d d d d d d d d d d d d d d d d d d d	- <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	
1.2-distrons-3-chisropropane 1.2-distrionseturane 1.2-distrionseturane 1.2-distrionseturane 1.3-distrionseturane 1.3-distrionseturane 1.3-distrionseturane 2.2-distrionseturane 2.2-distrionseturane 2.2-distrionseturane 2.2-distrionseturane 2.2-distrionseturane 2chisrosofulurane 2-chisrosofulurane 8-erustrionseturane 8-erustrionseturane 8-erustrionseturane 8-erustrionseturane 8-erustrionseturane 8-erustrionseturane 8-erustrionseturane 8-erustrionseturane 8-erustrionseturane	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1 1 1 1 1 5 2 5 1 0.1 0.1		160	120			30		c1 c1 c1 c1 c1 c1 c1 c1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	• • • • • • • • • • • • • • • • • • •	c1 c1 c1 c1 c1 c1 c1 c2 c3 c4 c4 c4 c4 c4 c4 c4	41 41 41 41 41 41 41 41 41 41 41 41 41 4	- c1 c1 c1 c5 c c5 c c c1 c1 c1 c1 c1 c1 c1 c1 c1 c1 c1 c1	-
1.2-distromos-3-chicropropane 1.2-distritoropropane 1.2-distritoropropane 1.2-distritoropropane 1.3-distritoropropane 1.3-distritoropropane 1.3-distritoropropane 1.3-distritoropropane 1.3-distritoropropane 2.2-distritoropropane 3.2-distritoropropane 3.2-distritoro	µg/L µg/L	5 1 1 1 1 1 5 2 5 1 0.1 0.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		160	120			30		c1 c1 c1 c1 c2 c3 c4 c4 c4 c4 c4 c4 c4		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		리 리 리 리 리 리 리 리 리 리 리 리 리 리 리 리 리 리 리	C C C C C C C C		
1.2-distrons-3-chisropropane 1.2-distrionseturane 1.2-distrionseturane 1.2-distrionseturane 1.3-distrionseturane 1.3-distrionseturane 1.3-distrionseturane 2.2-distrionseturane 2.2-distrionseturane 2.2-distrionseturane 2.2-distrionseturane 2.2-distrionseturane 2chisrosofulurane 2-chisrosofulurane 8-erustrionseturane 8-erustrionseturane 8-erustrionseturane 8-erustrionseturane 8-erustrionseturane 8-erustrionseturane 8-erustrionseturane 8-erustrionseturane 8-erustrionseturane	µg/L µg/L	5 1 1 1 1 1 5 2 5 1 0.1 0.1		160	120			30		c1 c1 c1 c1 c1 c1 c1 c1		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	• • • • • • • • • • • • • • • • • • •	c1 c1 c1 c1 c1 c1 c1 c2 c3 c4 c4 c4 c4 c4 c4 c4	41 41 41 41 41 41 41 41 41 41 41 41 41 4	- c1 c1 c1 c5 c c5 c c c1 c1 c1 c1 c1 c1 c1 c1 c1 c1 c1 c1	-
1.2-distrom-3-chitorgorgame 1.2-distrionseture 1.2-distrionseture 1.2-distrionseture 1.2-distrionseture 1.3-distrionseture 1.3-distrionseture 1.3-distrionseture 1.3-distrionseture 1.3-distrionseture 1.3-distrionseture 1.3-distrionseture 1.2-distrionseture 1.2-distrionseture 1.2-distrionseture 1.2-distrionseture 1.2-distrionseture 1.2-distrionseture 1.3-distrionseture 1.3-	µg/L µg/L	5 1 1 1 1 1 5 2 5 5 1 0.1 0.1 1 1 1 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1		160	120			30		c c c c c c c c		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	• • • • • • • • • • • • • • • • • • •	41 41 41 41 41 41 41 41 41 41 41 41 41 4			-
1.2-distromos 3-chicropropane 1.2-distritoropropane 1.2-distritoropropane 1.2-distritoropropane 1.3-distritoropropane 1.3-distritoropropane 1.3-distritoropropane 1.3-distritoropropane 2.2-distritoropropane 3distritoropropane 3.	ид/L ид/L ид/L ид/L ид/L ид/L ид/L ид/L	5 1 1 1 1 1 5 2 5 1 0.1 0.1 1 1 1 0.1 5 1 0.1 1 1 1 0.1 1 1 1 1 1 1 1 1 1 1 1 1		160	120			30		c1 c1 c1 c1 c1 c1 c1 c1		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	• • • • • • • • • • • • • • • • • • •	41 41 41 41 41 43 41 41 41 41 41 41	<1 <1 <1 <1 <2 <2 <2 <1 <2 <1 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2<		
1.2-distrons-3-chitorgorgane 1.2-distrionseture 1.2-distrionseture 1.2-distrionseture 1.2-distrionseture 1.3-distrionseture 1.3-distrionseture 1.3-distrionseture 1.3-distrionseture 1.3-distrionseture 1.3-distrionseture 1.3-distrionseture 1.2-distrionseture 1.3-distrionseture 1.3	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1 1 1 1 1 1 5 2 5 1 0.1 0.1 1 1 1 5 5 1 0.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		160	120			30		41 41 41 41 41 41 41 41 41 41 41 41 41 4		6		41 41 41 41 41 43 41 41 41 41 41 41	<1 <1 <1 <1 <2 <2 <2 <1 <2 <1 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2<	• et et et et et et et et et et et et et	
1.2-distromos-3-chicropropane 1.2-distritoropropane 1.2-distritoropropane 1.2-distritoropropane 1.3-distritoropropane 1.3-distritoropropane 1.3-distritoropropane 1.3-distritoropropane 2.2-distritoropropane 2.2-distritoropropane 2.2-distritoropropane 2.2-distritoropropane 2.2-distritoropropane 2.2-distritoropropane 2chicroropythalene 2-chicrotoluene Benzal Chicritoria Benzal Chicritoria Benzal Chicritoria Benzal Chicritoria Benzal Chicritoria Carbon testachicritoria Chicroperopene Chicroperopene Chicroperopene	μg/L μg/L μg/L μg/L μg/L μg/L μg/L μg/L	5 1 1 1 1 1 1 5 2 5 1 0.1 0.1 1 1 1 1 1 1 5 2 1 1 1 1 1 1 1 1 1 1 1		160	120			400		다 다 다 다 다	. et et et et et et et et et et et et et	6		41 41 41 41 41 43 41 41 41 41 41 41	<1 <1 <1 <1 <2 <2 <2 <1 <2 <1 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2<	• et et et et et et et et et et et et et	



								Location Code	NEL-BH095	NEL-BH097	NEL-BH098	NEL-BH106	NEL-BH107	NEL-BH125	NEL-BH125	NEL-BH125
								Fleid ID								
									NEL-BH095 / 130218	NEL-BH097/150218	NEL-BH098/150218	NEL-BH106 / 160418	NEL-BH107 / 160418	NEL-BH125/160218	QC1/160218	QC2/160218
								Date	13/02/2018	15/02/2018	15/02/2018	16/04/2018	16/04/2018	16/02/2018	16/02/2018	16/02/2018
								Sample Type	Normal	Normal	Normal	Nomal	Normal	Normal	Field_D	Field_D
								Lab Report Number	584938	585222 / EM1803079	585222 / EM1803079	594417 / EM1806339	594417 / EM1806339	585329 / EM1803154	585329 / EM1803154	EM1803154
	_		ANZECC 2000 -	ANZECC 2000	ANIZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational								
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%		Guidelines 2008								
PE 10	Unit	EQL	Stock watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008		i.	i .	i.	1	i	i .	i .
PFAS																
Perfluorodecanesulfonic acid (PFDS)	μg/L	0.002							-	-	-	-	-	< 0.01	< 0.01	< 0.02
Perfluoro-n-hexadecanoic acid (PFHxDA)	µg/L	0.005							-	-	-	-	-	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	μg/L	0.002							-	-	-	-	-	< 0.01	< 0.01	< 0.02
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	μg/L	0.002								-	-		-	< 0.05	< 0.05	< 0.02
N-Methyl perfluorooctane sulfonamidoethanol	μg/L	0.005								-	-			<0.05	<0.05	<0.05
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.01							-							
Sum of US EPA PFAS (PFOS + PFOA)*		0.01									_			-	-	
	µg/L										-			-		
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	μg/L	0.005							-	-	-	-	-	< 0.01	< 0.01	< 0.05
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	μg/L	0.005							-	-	-	-	-	< 0.01	< 0.01	< 0.05
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	μg/L	0.002							-	-	-	-	-	< 0.05	< 0.05	< 0.02
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.002							-	-	-			< 0.01	<0.01	<0.02
Perfluoropentanoic acid (PFPeA)	µg/L	0.002								-	-		-	<0.01	< 0.01	<0.02
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.002									_			<0.01	<0.01	<0.02
									-	-	-	-	-	<0.01	₹0.01	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.005							-	-	-	-	-	<0.01	<0.01	<0.05
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	μg/L	0.005									<u> </u>	<u> </u>	<u> </u>	< 0.05	< 0.05	< 0.05
N-Ethyl perfluorooctane sulfonamidoethanol	µg/L	0.005							-	-	-	-	-	< 0.05	< 0.05	< 0.05
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.005							-	-	-	-	-	< 0.05	< 0.05	< 0.05
6:2 Fluorotelomer Sulfonate (6:2 FTS)	µg/L	0.005							-		1 -	-	-	< 0.05	< 0.05	<0.05
Perfluorooctanoic acid (PFOA)	µg/L	0.002				19			<u> </u>		 	-	 	<0.01	<0.01	<0.01
Perfluoropentane sulfonic acid (PFPeS)						10			· ·		+	-	 			
r emuoropeniane suiionic acid (PFPeS)	µg/L	0.002							-	-	-	-	-	< 0.01	< 0.01	<0.02
Perfluorobutanoic acid (PFBA)	µg/L	0.01							-	-	-	-	-	<0.05	< 0.05	<0.1
Perfluorodecanoic acid (PFDA)	µg/L	0.002							-	-	-	-	-	< 0.01	< 0.01	< 0.02
Perfluorododecanoic acid (PFDoDA)	μg/L	0.002							-	-	-	-	-	< 0.01	< 0.01	< 0.02
Perfluoroheptanoic acid (PFHpA)	µg/L	0.002								-	-			< 0.01	< 0.01	< 0.02
Perfluorohexanoic acid (PFHxA)	μg/L	0.002												< 0.01	< 0.01	<0.02
Perfluorononanoic acid (PFNA)		0.002							-					<0.01	<0.01	<0.02
Pertiuorononanoic acid (PFNA)	μg/L								-	-	-	-	-			
Perfluorooctane sulfonic acid (PFOS)	μg/L	0.002				0.00023			-	-	-	-	-	<0.01	< 0.01	<0.01
Perfluorooctane sulfonamide (FOSA)	µg/L	0.002							-	-	-	-	-	< 0.05	< 0.05	< 0.02
Perfluorotetradecanoic acid (PFTeDA)	μg/L	0.005							-	-	-	-	-	< 0.01	< 0.01	< 0.05
Perfluorotridecanoic acid (PFTrDA)	μg/L	0.002							-	-	-	-	-	< 0.01	< 0.01	< 0.02
Perfluoroundecanoic acid (PFUnDA)	μg/L	0.002								-	-			< 0.01	< 0.01	< 0.02
PFAS (Sum of Total)	μg/L	0.002							-		-	-	-	<0.1	<0.1	<0.01
PFAS (Sum of Total)(WA DER List)		0.002							-	-	-	-	-		<0.05	<0.01
	μg/L										-		_	< 0.05		
Sum of PFHxS and PFOS	μg/L	0.002							-	-	-	-	-	<0.01	<0.01	<0.01
TPH																
Oil & Grease	mg/L	10							-	-	-	-	-	-	-	-
Biological																
Sulfate Reducing Bacteria Population Estimate	pac/mL	20							-	120.000	320	1.400	120.000	500.000	500.000	500.000
Sulfate Reducing Bacteria Aggressivity	-	1								1	1	1	- 1	- 1	1	1
Chlorinated Hydrocarbons										· ·	-	· ·				
															<5	
Chlorinated hydrocarbons EPAVic	µg/L	5							-	-	-	-	-	<5	_	-
Other chlorinated hydrocarbons (Total)	MG/L								-	-	-	-	-	< 0.005	< 0.005	-
1,1,1,2-tetrachloroethane	μg/L	1							-	-	-	-	-	<1	<1	<5
1,1,1-trichloroethane	µg/L	- 1							-	-	-	-	-	<1	<1	<5
1,1,2,2-tetrachloroethane	μg/L	1							-	-	-	-	-	<1	<1	<5
1,1,2-trichloroethane	μg/L	1		6500	5400						1 -			<1	<1	<5
1.1-dichloroethene	µg/L	1						300			1 -	-		<1	<1	<5
1,1-dichloropropene		5						000			+		1	-	1	<5
1,1-dichioropropene 1,2,4-trichlorobenzene	µg/L	-		170	85						+		1 -	<5		<2
	μg/L	1		170	85				-	-	-	-	-	<5	<5	
1,2-dibromo-3-chloropropane	µg/L	5							-	-	-	-	-	-	-	<5
1,2-dichlorobenzene	μg/L	- 1		160	120			15000	-	-	-	-	-	<1	<1	<2
1,2-dichloroethane	μg/L	- 1						30	-	-	-	-	-	<1	<1	<5
1,2-dichloropropane	μg/L	- 1							-	-	-	-	-	<1	<1	<5
1,3-dichloropropane	μg/L	1							-	-	-	-	-	<1	<1	<5
1,4-dichlorobenzene	µg/L	1		60	40			400			+	-	-	<1	<1	<2
				80	40			400		-	+		1 -		- 51	
2,2-dichloropropane	μg/L	5							-	-	-	-	-	-		<5
2-chloronaphthalene	µg/L	2							-	-	-	-	-	<5	<5	<2
2-chlorotoluene	µg/L	5							-	-	-	-	-	-	-	<5
4-chlorotoluene	µg/L	1							-	-	-	-	-	<1	<1	<5
Benzal Chloride	µg/L	0.1								-	1 -			-		
Benzotrichloride	µg/L	0.1									+	-	1	+	+	+
										-	+	-	+		<1	
Bromobenzene	μg/L	1							-	-	-	-	-	<1		<5
Bromochloromethane	μg/L	1							-	-	-	-	-	<1	<1	-
Carbon tetrachloride	µg/L	- 1							-	-	-	-	-	<1	<1	<5
Chlorobenzene	μg/L	1							-	-	-	-	-	<1	<1	<5
Chloroform	µg/L	5							-	-	-	-	-	<5	<5	<5
Chloromethane	µg/L	1									1 -	-		<1	<1	<50
cis-1,2-dichloroethene		1									+	1	1			<5
Dichloromethane	µg/L							40		-	+	-	+	51	*1	
	μg/L	1						40	-	-	-	-	-	<1	<1	-
Hexachlorobutadiene	μg/L	0.1						7	-	-	-	-	-	<5	<5	<2



March Marc										_						
Part									Location Code	NEL-BH128	NEL-BH140	NEL-ENV-BH006	NEL-ENV-BH008	NEL-ENV-BH009	NEL-ENV-BH009	NEL-ENV-BH014
Mary Mary																ENV-BH014 / 130718
March Marc																Normal 607533 / EM1811208
Part Part		_	_	ANIZECC 2000	ANIZECO 2000	ANIZECO 2000	DEAC NEMP 2040	ANIZECO 2000 Inication		588501	594938	EM1810368	EM180/515	EM1810368	EM1811589	60/533 / EM1811208
Manual Content		Unit	FOI													
Processor And Part 1975	PEAR	Orm	Luc	Stock watering	1 44 92 /6	1 44 00 70	i restiwater 5576	Long-term migger values	Guidelines 2000		1	1	1	1	1	1
Marchanten of Principle Marchanten of Princip	Perfluorodecanesulfonic acid (PFDS)	ug/L	0.002							<0.01	-	<0.002	<0.002	<0.002	<0.002	<0.01
Processing and Company		ug/L	0.005							-	-	< 0.005	< 0.005			-
The property of the property										< 0.01	-					<0.01
Part of File Part	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)										-					< 0.05
Face of Start And ACTION 100 1	N-Methyl perfluorooctane sulfonamidoethanol	μg/L	0.005							< 0.05	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05
32 Franchister admin and (19 Fill)		μg/L	0.01							-	-	-	-	-	-	0.02
### SPARROW CHILD AND PROPERTY OF STATES AND										-	-	-	-	-	-	0.02
Seed partners and information of submitted											-					<0.01
Pubmishing and part Property Pubmishing Pubmishin											-					<0.01
Pelangeria Lange Pelangeria Langeria L	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)										-					<0.05
Productions and Production 1.00		1.0									-					<0.01
STATEMENT AGENCY AND PARTY Common Property											-		<0.002			0.02
Microprocess perform Principal Princ	Perfluorohexane sulfonic acid (PFHxS)										-		<0.002	0.552	0.378	<0.01
Methodological advantage in Methods Method											-					<0.01
Public public and authorises and provided by the control of the											-					<0.05
STATEMENT CONTINUES 1975											-					<0.05 <0.05
Public public											-					<0.05
### Professionary and PFT60) May 1.00							10				1 - 1					<0.05
Performance on prints 94,	Perfluoronentane sulfonic acid (PEPeS)						10									<0.01
Public content of PPAC PPA																<0.05
Productionance and PTICAD											-					<0.03
Performance and PPPA																<0.01
Performance of PTINAL PART											-					<0.01
Performance control (PRA)											-					0.01
Performance and profession Performance											-					<0.01
Perfundanciance of PEACA Opt Copy Co							0.00023			< 0.01	-	< 0.002	< 0.002	0.146	0.150	0.02
Performationation col (FFLAC) girl 0.000	Perfluorooctane sulfonamide (FOSA)	µg/L	0.002							< 0.05	-	< 0.002	< 0.002	< 0.002		< 0.05
Performancement of PPECA) pst 0.000 0.											-					< 0.01
Performancement and PPTIA(A) MgL Code											-					< 0.01
PPAS Grant Treat/NA (PRI LINE)		μg/L	0.002								-	<0.002	< 0.002	< 0.002	< 0.002	< 0.01
Sun Prints of		μg/L	0.002								-	< 0.002	< 0.002	1.66	1.83	<0.1
The											-					0.05
Company Comp		μg/L	0.002							< 0.01	-	< 0.002	<0.002	0.698	0.528	0.02
Mode March																
Suffer Review (Desired Agreemance)		mg/L	10							<10	-	-	-	-	-	-
Solition Robuston (Solition Ro	Biological															
Chloridate Hydrocations (FMV)		pac/mL									-	120,000	6,000	6,000	-	120,000
Chiomete Introduction (PMC)		-	1								-	1	1	1	-	1
Distribution (Folds) Distribution (Folds)	Chlorinated Hydrocarbons															
1.1.1 2.4 standshore share 1.9 1 1 1 1 1 1 1 1 1			5								-	-	-	-	-	<5
1.1-2-beta-formance			-								-	-			-	<0.005
1.1.2-shrinorethrane 191										-	-		_		-	<1
1.1.4 chrokroethane										-	-	<5	< >	<5	-	<1
1.1-de/chrospense					6500	5400				-	-		10	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
1.1-de highoroproper					3300	5400			300		1 - 1	<5	- 5		1	<1
1.2.4-inforceberzene									000		-				_	+
1.2-dichioroptame					170	85				<1	-				_	<5
1.2-dichloroberance											-				-	-
1.3-dichioreptame					160	120			15000		-				-	<1
1.3-dichloropapene										-	-				-	<1
1.3-dichioropapane			- 1							-	-	<5	<5	<5	-	<1
1.4-Indeptorbane	1,3-dichloropropane		- 1							-	-	<5	<5	<5	-	<1
2.2-de/inforappane	1,4-dichlorobenzene		- 1		60	40			400	<1	-	<2	<2	<2	-	<1
2-chiorotolure ygl. 5		μg/L								-		<5	<5	<5	-	-
4-chorodusene 99L 1 9L 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9										<5		<2	<2	<2	-	<5
Servacia Chloride										-	-	<5	<5	<5	-	1
Beropichionide spl 0.1		μg/L								-	-	<5	<5		-	<1
Bromochrome 1971 1 1 1 1 1 1 1 1 1											-	-	-	-	-	-
Bornochiromethane										<0.1	-	-	-	-	-	
Cation tetrachloride										-	-		~	_	-	<1
Chloroferene spl 1										-	-		-	-	-	<1
Chloroform 191 5										-	-	<5	<5	<5	-	<1
Chforomethane ingl. 1 .										-	-	<5	<5	<5	-	<1
cis-1,2-dichloroethene lypl 1 Dichloromethane lypl 1										-	-				-	<5
Dichloromethane µgL 1 40 · · · · · · ·										-	-				-	<1
									40	-	-				-	<1
									40	-0.4	-				-	<1
Transmissionalisms pg									2	<0.1	-	<z <e0< td=""><td></td><td><2</td><td>-</td><td><5</td></e0<></z 		<2	-	<5

NEL-ENV-BH032



Appendix J Table 5 Summary of Groundwater Analytical Results

NEL-ENV-BH024 NEL-ENV-BH024 NEL-ENV-BH024

NEL-ENV-BH025

								Fleid ID	NEL-ENV-BH022	NEL-ENV-BH024_0805201	18 NEL-ENV-BH024_19072018	QC5000_08052018	QC6000_08052018	NEL-ENV-BH025_09052018	NEL-ENV-BH032_27062018	NEL-PB01A
								Date	27/09/2018	8/05/2018	19/07/2018	8/05/2018	8/05/2018	9/05/2018	27/06/2018	6/07/2018
								Sample Type	Normal	Normal	Normal	Field_D	Field_D	Normal	Normal	Normal
								Lab Report Number		EM1807515		EM1807515	EM1807515	EM1807669	EM1810368	607533
	1					PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational								
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008								
PFAS																
Perfluorodecanesulfonic acid (PFDS)	μg/L	0.002							< 0.002	<0.002	<0.002	< 0.002	<0.002	<0.002	<0.002	-
Perfluoro-n-hexadecanoic acid (PFHxDA)	μg/L	0.005							< 0.005	< 0.005	<0.005	< 0.005	< 0.005	<0.005	<0.005	-
Perfluoroheptane sulfonic acid (PFHpS)	μg/L	0.002							<0.002	< 0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	μg/L	0.002							< 0.002	< 0.002	<0.002	<0.002	< 0.002	<0.002	< 0.002	-
N-Methyl perfluorooctane sulfonamidoethanol	μg/L	0.005							< 0.005	< 0.005	<0.005	<0.005	< 0.005	< 0.005	< 0.005	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	µg/L	0.01							-	-	-	-	-	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	μg/L	0.01							-	-	-	*	-	-	-	-
10:2 Fluorotelomer sulfonic acid (10:2 FTS) 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.005							< 0.005	<0.005	<0.005	<0.005	<0.005	< 0.005	<0.005	-
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.005							< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-
Perfluorobutane sulfonic acid (PFBS)	µg/L								<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
Perfluoropentanoic acid (PFPeA)	µg/L µg/L	0.002							<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.002							<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.002							<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	
N-Ethyl perfluoroctane sulfonamide (EtFOSA)	µg/L µg/L	0.005							<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-
N-Ethyl perfluorooctane sulfonamidoethanol		0.005								<0.005	<0.005	<0.005	<0.005		<0.005	-
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.005							<0.005 <0.005	<0.005	<0.005	<0.005	<0.005	<0.005 <0.005	<0.005	-
6:2 Fluorotelomer Sulfonate (6:2 FTS)	µg/L	0.005							<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	-
Perfluorocctanoic acid (PFOA)	µg/L µg/L	0.005				19			<0.005	<0.005	<0.007	<0.005	<0.005	<0.005	<0.005	1 - 1
Perfluoropentane sulfonic acid (PFPeS)	μg/L μg/L	0.002				19				<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<u> </u>
Perfluorobutanoic acid (PFBA)	µg/L µg/L	0.002							<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	1 - 1
Perfluorodecanoic acid (PFDA)	μg/L μg/L	0.002							<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.01	1
Perfluorododecanoic acid (PFDA) Perfluorododecanoic acid (PFDoDA)	μg/L μg/L	0.002							<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	1
Perfluorobeptanoic acid (PFHpA)	µg/L µg/L	0.002							<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
Perfluorohexanoic acid (PFHxA)	µg/L	0.002							<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-
Perfluorononanoic acid (PFNA)	µg/L	0.002							<0.002	<0.002	<0.002 <0.002	<0.002	<0.002	<0.002	<0.002	-
Perfluoroctane sulfonic acid (PFOS)		0.002				0.00023			<0.002	0.002	0.003	0.002	0.002	<0.002	<0.002	-
Perfluorooctane sulfonamide (FOSA)	μg/L μg/L	0.002				0.00020			<0.002	<0.002	<0.003	<0.002	<0.002	<0.002	<0.002	
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.002							<0.002	<0.002	<0.002	<0.005	<0.002	<0.002	< 0.002	-
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.003							<0.002	<0.002	<0.002	<0.002	<0.003	<0.003	<0.003	-
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.002							<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
PFAS (Sum of Total)	µg/L	0.002							<0.002	0.002	0.014	0.002	0.002	<0.002	<0.002	
PFAS (Sum of Total)(WA DER List)	µg/L	0.002							<0.002	0.002	0.014	0.002	0.002	<0.002	<0.002	-
Sum of PFHxS and PFOS	µg/L	0.002							<0.002	0.002	0.007	0.002	0.002	<0.002	<0.002	-
TPH	pgr	0.002							-0.002	0.002	0.007	0.002	0.002	-0.002	-0.002	
Oil & Grease	mg/L	10							-	-		-		<u> </u>	-	-
Biological														+		
Sulfate Reducing Bacteria Population Estimate	pac/mL	20							27,000	120,000	-	6,000	6,000	500,000	500,000	-
Sulfate Reducing Bacteria Aggressivity	-	1							1	1	-	1	1	1	1	-
Chlorinated Hydrocarbons																
Chlorinated hydrocarbons EPAVic	μg/L	5								-	-	-		-	-	-
Other chlorinated hydrocarbons (Total)	MG/L									-	-	-		-	-	-
1,1,1,2-tetrachloroethane	μg/L	- 1							<100	<5	-	<5	<5	<5	<5	
1,1,1-trichloroethane	μg/L	1							<100	<5	-	<5	<5	<5	<5	-
1,1,2,2-tetrachloroethane	μg/L	- 1							<100	<5	-	<5	<5	<5	<5	
1,1,2-trichloroethane	µg/L	- 1		6500	5400				<100	<5	-	<5	<5	<5	<5	-
1,1-dichloroethene	μg/L	- 1						300	<100	<5	-	<5	<5	<5	<5	-
1,1-dichloropropene	μg/L	5							<100	<5	-	<5	<5	<5	<5	-
1,2,4-trichlorobenzene	μg/L	- 1		170	85				<2	<2	-	<2	<2	<2	<2	-
1,2-dibromo-3-chloropropane	μg/L	5							<100	<5	-	<5	<5	<5	<5	-
1,2-dichlorobenzene	μg/L	- 1		160	120			15000	<2	<2	-	<2	<2	<2	<2	-
1,2-dichloroethane	μg/L	- 1						30	<100	45		<5	<5	<5	<5	
1,2-dichloropropane	μg/L	-1							<100	<5	-	<5	<5	<5	<5	
1,3-dichloropropane	μg/L	- 1							<100	45	-	<5	<5	<5	<5	-
1,4-dichlorobenzene	μg/L	- 1		60	40			400	<2	<2	-	<2	<2	<2	<2	-
2,2-dichloropropane	μg/L	5							<100	<5	-	<5	<5	<5	<5	
2-chloronaphthalene	μg/L	2							<2	<2		<2	<2	<2	<2	
2-chlorotoluene	μg/L	5							<100	<5	-	<5	<5	<5	<5	-
4-chlorotoluene	μg/L	- 1							<100	<5	-	<5	<5	<5	<5	-
Benzal Chloride		0.1							-	-	-	-	-	-	-	-
	μg/L								-	-	-	-	-	-	-	-
Benzotrichloride	μg/L μg/L	0.1							<100	<5	-	<5	<5	<5	<5	-
Bromobenzene	μg/L μg/L μg/L	0.1														
Bromobenzene Bromochloromethane	µg/L µg/L µg/L µg/L	0.1 1							-	-	-	-	-	-	-	-
Bromobenzene Bromochloromethane Carbon tetrachloride	μg/L μg/L μg/L μg/L μg/L	0.1 1 1							<100	<5	-	- <5	- <5	- <5	- <5	-
Bromobenzene Bromochloromethane Carbon tetrachloride Chlorobenzene	μg/L μg/L μg/L μg/L μg/L μg/L	0.1 1 1 1							<100	<5 <5		- <5 <5	<5	- <5 <5	<5	-
Bromobenzene Bromochloromethane Carbon tetrachloride Chlorobenzene Chloroform	µg/L µg/L µg/L µg/L µg/L µg/L	0.1 1 1 1 1 1 5							<100 <100	<5 <5					<5 <5	
Bromobenzenie Bromochicomethane Carbon tetrachloride Chlorobenzenie Chloroform Chloromethane	µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.1 1 1 1 1 5							<100 <100 <1,000				<5		<5	
Bromochrome Bromochlorome Bromochlorome Carbon tetrachloride Chicobenzene Chicorom Chicoromethane cis-1-2-dichlorosethene	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.1 1 1 1 1 5 1							<100 <100	<5 <5			<5		<5 <5	
Bromoblevære Eromoblevære Eromoblevære Carbon tetrachloride Chicodemære Chicodem Chicodem Chicodem Chicodem Dichoconethene das 1-2 acidocosthene Dichoconethene	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.1 1 1 1 1 5 1						40	<100 <100 <1,000 <100	<5 <5 <50 <5	-	<5 <5 <50 <5	<5 <5 <50 <5	<5 <5 <50 <5	<5 <5 <50 <5	
Bromochrome Bromochlorome Bromochlorome Carbon tetrachloride Chicobenzene Chicorom Chicoromethane cis-1-2-dichlorosethene	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	0.1 1 1 1 1 5 1						40 7	<100 <100 <1,000	<5 <5	-		<5		<5 <5	

North East Link Project

_								Location Code	NEL-BH004	NEL-BH004A	NEL-BH031	NEL-BH031	NEL-BH037	NEL-BH038	NEL-BH039	NEL-BH039	NEL-BH039
								Field ID	NEL-BH004 D/150218	NEL-BH004 S/150218	NEL-BH031/080318	NEL-BH031 / 130218	NEL-BH037 / 160418	NEL-BH038 / 140218	NEL-BH039/180418	QC1/180418	QC2 / 180418
								Date	15/02/2018	15/02/2018	8/03/2018	13/02/2018	16/04/2018	14/02/2018	18/04/2018	18/04/2018	18/04/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field D	Field D
								Lab Report Number	585222 / EM1803079	585222 / EM1803079	588501	584938	594417 / EM1806339	584987 / EM1802989	594938 / EM1806473	594938 / EM1806473	EM1806473
			ANZECC 2000 -	ANZECC 2000	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational									
	Unit	EQL			FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008									
Dioxins & Furans											1	1		1		1	
Dibenzofuran	μg/L	2							-	-	<5	-	-	-	<10	<10	<2
Explosives																	
1,3,5-Trinitrobenzene	μg/L	2								-	-	-	-	-	-	-	<2
2,4-Dinitrotoluene	μg/L	4		65	16				-	-	<5	-	-	-	<10	<10	<4
2,6-dinitrotoluene	μg/L	4							-	-	<5	-	-	-	<10	<10	<4
Nitrobenzene	μg/L	2		550	230				-	-	<50	-	-	-	<50	<50	<2
Nitroaromatics																	
2-Picoline	μg/L	2							-	-	<5	-	-	-	<5	<5	<2
4-aminobiphenyl	μg/L	2							-	-	<5	-	-	-	<5	<5	<2
Pentachloronitrobenzene	μg/L	2						300	-	-	<5	-	-	-	<5	<5	<2
Gases																	
Free Carbon Dioxide as CO2	mg/L								-	-	-	-	-	-	-	-	192
Phthalates																	
Bis(2-ethylhexyl) phthalate	µg/L	5						100	-	-	<5	-	-	-	<5	<5	<10
Butyl benzyl phthalate	μg/L	2							-	-	<5	-	-	-	<5	<5	<2
Diethylphthalate	µg/L	2		1000	900				-	-	<5	-	-	-	<10	<10	<2
Dimethyl phthalate	μg/L	2		3700	3000				-	-	<5	-	-	-	<10	<10	<2
Di-n-butyl phthalate	µg/L	2		26	9.9				-	-	<5	-	-	-	<5	<5	<2
Di-n-octyl phthalate	μg/L	2							-	-	<5	-	-	-	<5	<5	<2

Environmental Standards HEPA, January 2018, PFAS NEMP 2018 Freshwater 99%

Location Code	NEL-BH040	NEL-BH040A	NEL-BH044	NEL-BH059	NEL-BH060	NEL-BH062	NEL-BH062	NEL-BH062A	NEL-BH062B	NEL-BH062B
Field ID	NEL-BH040 / 120218	NEL-BH040 A / 120218	NEL-BH044 / 130218	NEL-BH059 / 130218	NEL-BH060 / 140218	NEL-BH062/080318	NEL-BH062 / 140218	NEL-BH062 A / 160218	NEL-BH062B/080318	NEL-BH062 B / 140218
Date	12/02/2018	12/02/2018	13/02/2018	13/02/2018	14/02/2018	8/03/2018	14/02/2018	16/02/2018	8/03/2018	14/02/2018
Sample Type	Mormal	Mormal	Normal	Mormal	Nomal	Normal	Mormal	Mormal	Normal	Mormal

								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
								Lab Report Number	584938	584938	584938	584938	584987 / EM1802989	588501	584987 / EM1802989	585329 / EM1802989	588501	584987 / EM1802989
			ANZECC 2000 -	ANZECC 200	0 ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational		•	•				•	•	•	•
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008										
Dioxins & Furans										1								
Dibenzofuran	μg/L	2							-	-	-	-	-	<5	-	<5	<5	-
Explosives																		
1,3,5-Trinitrobenzene	μg/L	2							-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	μg/L	4		65	16				-	-	-	-	-	<5	-	<5	<5	-
2,6-dinitrotoluene	μg/L	4							-	-	-	-	-	<5	-	<5	<5	-
Nitrobenzene	μg/L	2		550	230				-	-	-	-	-	<50	-	<50	<50	-
Nitroaromatics																		
2-Picoline	μg/L	2							-	-	-	-	-	<5	-	<5	<5	-
4-aminobiphenyl	μg/L	2							-	-	-	-	-	<5	-	<5	<5	-
Pentachloronitrobenzene	μg/L	2						300	-	-	-	-	-	<5	-	<5	<5	-
Gases																		
Free Carbon Dioxide as CO2	mg/L								-	-	-	-	-	-	-	-	-	-
Phthalates																		
Bis(2-ethylhexyl) phthalate	μg/L	5						100	-	-	-	-	-	<5	-	<5	<5	-
Butyl benzyl phthalate	μg/L	2							-	-	-	-	-	<5	-	<5	<5	-
Diethylphthalate	μg/L	2		1000	900				-	-	-	-	-	<5	-	<5	<5	-
Dimethyl phthalate	μg/L	2		3700	3000				-	-	-	-	-	<5	-	<5	<5	-
Di-n-butyl phthalate	μg/L	2		26	9.9				-	-	-	-	-	<5	-	<5	<5	-
Di-n-octyl phthalate	μg/L	2							-	-	-	-	-	<5	-	<5	<5	-

Environmental Standards HEPA, January 2018, PFAS NEMP 2018 Freehwater 99%

North East Link Project

								Location Code	NEL-BH064	NEL-BH070	NEL-BH071	NEL-BH072	NEL-BH076	NEL-BH076A	NEL-BH078
								Field ID	NEL-BH064 / 140218	NEL-BH070 / 120218	NEL-BH071/170418	NEL-BH072 / 120218	NEL-BH076/170418	NEL-BH076A/170418	NEL-BH078/170418
								Date	14/02/2018	12/02/2018	17/04/2018	12/02/2018	17/04/2018	17/04/2018	17/04/2018
								Sample Type	Normal						
								Lab Report Number	584987 / EM1802989	584938	594757 / EM1806408	584938	594757 / EM1806408	594757 / EM1806408	594757 / EM1806408
			ANZECC 2000 -	ANZECC 2000	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational							
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008							
Dioxins & Furans															
Dibenzofuran	μg/L	2							-	-	-	-	-	-	-
Explosives															
1,3,5-Trinitrobenzene	μg/L	2							-	-	-	-	-	-	-
2,4-Dinitrotoluene	μg/L	4		65	16				-	-	-	-	-	-	-
2,6-dinitrotoluene	μg/L	4							-	-	-	-	-	-	-
Nitrobenzene	μg/L	2		550	230				-	-	-	-	-	-	-
Nitroaromatics															
2-Picoline	μg/L	2							-	-	-	-	-	-	-
4-aminobiphenyl	μg/L	2							-	-	-	-	-	-	-
Pentachloronitrobenzene	μg/L	2						300	-	-	-	-	-	-	-
Gases															
Free Carbon Dioxide as CO2	mg/L								-	-	-	-	-	-	-
Phthalates															
Bis(2-ethylhexyl) phthalate	μg/L	5						100	-	-	-	-	-	-	-
Butyl benzyl phthalate	μg/L	2							-	-	-	-	-	-	-
Diethylphthalate	μg/L	2		1000	900				-	-	-	-	-	-	-
Dimethyl phthalate	μg/L	2		3700	3000				-	-	-	-	-	-	-
Di-n-butyl phthalate	μg/L	2		26	9.9				-	-	-	-	-	-	-
Di-n-octyl ohthalate	un/l	2										1		1	1

Environmental Standards HEPA, January 2018, PFAS NEMP 2018 Freshwater 99%

North	East	Link	Pro	iect

								1	LUCK DI 1000	Turn pulses	Lucy Disease	INC. DUGGO	NET DITORT	NIEL DUIGOO	LUCK DIVIDADO	NET DURAN	NET DI 1000
								Location Code	NEL-BH083	NEL-BH086	NEL-BH086	NEL-BH086	NEL-BH087	NEL-BH088	NEL-BH089	NEL-BH091	NEL-BH093
								Field ID	NEL-BH083 / 160418	NEL-BH086 / 120718	QC1 / 120718	QC2/120718	NEL-BH087 / 120718	NEL-BH088 / 120718	NEL-BH089 / 120718	NEL-BH091/160218	NEL-BH093 / 160418
								Date	16/04/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	12/07/2018	16/02/2018	16/04/2018
								Sample Type	Normal	Normal	Field_D	Field_D	Normal	Normal	Normal	Normal	Normal
								Lab Report Number	594417 / EM1806339	607533 / EM1811208	607533	EM1811208	607533 / EM1811208	607533 / EM1811208	607533 / EM1811208	585329 / EM1803154	594417 / EM1806339
			ANZECC 2000 -	ANZECC 2000	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational									
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008									
Dioxins & Furans													1				
Dibenzofuran	μg/L	2							-	<5	<5	<2	<5	<5	<5	<5	-
Explosives																	
1,3,5-Trinitrobenzene	μg/L	2							-	-	-	<2	-	-	-	-	-
2,4-Dinitrotoluene	μg/L	4		65	16				-	<5	<5	<4	<5	<5	<5	<5	-
2,6-dinitrotoluene	μg/L	4							-	<5	<5	<4	<5	<5	<5	<5	-
Nitrobenzene	μg/L	2		550	230				-	<50	<50	<2	<50	<50	<50	<50	-
Nitroaromatics																	
2-Picoline	μg/L	2							-	<5	<5	<2	<5	<5	<5	<5	-
4-aminobiphenyl	µg/L	2							-	<5	<5	<2	<5	<5	<5	<5	-
Pentachloronitrobenzene	μg/L	2						300	-	<5	<5	<2	<5	<5	<5	<20	-
Gases																	
Free Carbon Dioxide as CO2	mg/L								-	-	-	228	-	-	-	-	-
Phthalates																	
Bis(2-ethylhexyl) phthalate	µg/L	5						100	-	<5	<5	<10	<5	<5	<5	<5	-
Butyl benzyl phthalate	μg/L	2							-	<5	<5	<2	<5	<5	<5	<5	-
Diethylphthalate	µg/L	2		1000	900				-	<5	<5	<2	<5	<5	<5	<5	-
Dimethyl phthalate	μg/L	2		3700	3000				-	<5	<5	<2	<5	<5	<5	<5	-
Di-n-butyl phthalate	µg/L	2		26	9.9				-	<5	<5	<2	<5	<5	<5	<5	-
Di-n-octyl phthalate	µg/L	2							-	<5	<5	<2	<5	<5	<5	<5	-

Environmental Standards HEPA, January 2018, PFAS NEMP 2018 Freshwater 99%

Appendix J Table 5

NEL-BH098

NEL-BH106

NEL-BH107

NEL-BH097

North East Link Project

NEL-BH125

NEL-BH125

NEL-BH125

Summary of Groundwater Analytical Results

Location Code NEL-BH095

								Fleid ID	NEL-BH095 / 130218	NEL-BH097/150218	NEL-BH098/150218	NEL-BH106 / 160418	NEL-BH107 / 160418	NEL-BH125/160218	QC1/160218	QC2/160218
								Date	13/02/2018	15/02/2018	15/02/2018	16/04/2018	16/04/2018	16/02/2018	16/02/2018	16/02/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Field_D
								Lab Report Number	584938	585222 / EM1803079	585222 / EM1803079	594417 / EM1806339	594417 / EM1806339	585329 / EM1803154	585329 / EM1803154	EM1803154
			ANZECC 2000 -	ANZECC 2000	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational		•			•			
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008								
Dioxins & Furans									Ī					1		
Dibenzofuran	μg/L	2							-	-	-	-	-	<5	<5	<2
Explosives																
1,3,5-Trinitrobenzene	μg/L	2							-	-	-	-	-	-	-	<2
2,4-Dinitrotoluene	μg/L	4		65	16				-	-	-	-	-	<5	<5	<4
2,6-dinitrotoluene	μg/L	4							-	-	-	-	-	<5	<5	<4
Nitrobenzene	μg/L	2		550	230				-	-	-	-	-	<50	<50	<2
Nitroaromatics																
2-Picoline	μg/L	2							-	-	-	-	-	<5	<5	<2
4-aminobiphenyl	μg/L	2							-	-	-	-	-	<5	<5	<2
Pentachloronitrobenzene	μg/L	2						300	-	-	-	-	-	<5	<5	<2
Gases																
Free Carbon Dioxide as CO2	mg/L								-	-	-	-	-	-	-	-
Phthalates																
Bis(2-ethylhexyl) phthalate	μg/L	5						100	-	-	-	-	-	<5	<5	<10
Butyl benzyl phthalate	μg/L	2							-	-	-	-	-	<5	<5	<2
Diethylphthalate	μg/L	2		1000	900				-	-	-	-	-	<5	<5	<2
Dimethyl phthalate	μg/L	2		3700	3000				-	-	-	-	-	<5	<5	<2
Di-n-butyl phthalate	μg/L	2		26	9.9				-	-	-	-	-	<5	<5	3
Di-n-octyl phthalate	ug/L	2							-	-	-	-	-	<5	<5	<2

Environmental Standards HEPA, January 2018, PFAS NEMP 2018 Freshwater 99%

Appendix J Table 5

NEL-ENV-BH006 NEL-ENV-BH008 NEL-ENV-BH009 NEL-ENV-BH009
NEL ENV BH006 27062019 NEL ENV BH008 09062019 NEL ENV BH009 27062019 NEL ENV BH009 1

North East Link Project

NEL-ENV-BH014

Summary of Groundwater Analytical Results

Location Code NEL-BH128 NEL-BH140

								Field ID	NEL-BH128/080318	NEL-BH140/180418	NEL-ENV-BH006_27062018	NEL-ENV-BH008_08052018	NEL-ENV-BH009_27062018	NEL-ENV-BH009_19072018	ENV-BH014 / 130718
								Date	8/03/2018	18/04/2018	27/06/2018	8/05/2018	27/06/2018	19/07/2018	13/07/2018
								Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal
								Lab Report Number	588501	594938	EM1810368	EM1807515	EM1810368	EM1811589	607533 / EM1811208
			ANZECC 2000 -	ANZECC 2000	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational		•	•	•	•	•	•
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008							
Dioxins & Furans									Ī						
Dibenzofuran	µg/L	2							<5	-	<2	<2	<2	-	<5
Explosives															
1,3,5-Trinitrobenzene	µg/L	2							-	-	<2	<2	<2	-	-
2,4-Dinitrotoluene	µg/L	4		65	16				<5	-	<4	<4	<4	-	<5
2,6-dinitrotoluene	µg/L	4							<5	-	<4	<4	<4	-	<5
Nitrobenzene	µg/L	2		550	230				<50	-	<2	<2	<2	-	<50
Nitroaromatics															
2-Picoline	µg/L	2							<5	-	<2	<2	<2	-	<5
4-aminobiphenyl	µg/L	2							<5	-	<2	<2	<2	-	<5
Pentachloronitrobenzene	µg/L	2						300	<5	-	<2	<2	<2	-	<5
Gases															
Free Carbon Dioxide as CO2	mg/L								-	-	-	-	-	-	-
Phthalates															
Bis(2-ethylhexyl) phthalate	µg/L	5						100	<5	-	<10	<10	<10	-	<5
Butyl benzyl phthalate	µg/L	2							<5	-	<2	<2	<2	-	<5
Diethylphthalate	µg/L	2		1000	900				<5	-	<2	<2	<2	-	<5
Dimethyl phthalate	µg/L	2		3700	3000				<5	-	<2	<2	<2	-	<5
Di-n-butyl phthalate	µg/L	2		26	9.9				<5	-	<2	<2	<2	-	<5
Di-n-octyl phthalate	µg/L	2							<5	-	<2	<2	<2	-	<5

Environmental Standards HEPA, January 2018, PFAS NEMP 2018 Freshwater 99%



								Date	27/09/2018	8/05/2018	19/07/2018	8/05/2018	8/05/2018	9/05/2018	27/06/2018	6/07/2018
								Sample Type	Normal	Normal	Normal	Field_D	Field_D	Normal	Normal	Normal
								Lab Report Number	EM1815577	EM1807515	EM1811589	EM1807515	EM1807515	EM1807669	EM1810368	607533
			ANZECC 2000 -	ANZECC 200	ANZECC 2000	PFAS NEMP 2018	ANZECC 2000 Irrigation -	NHMRC Recreational						•		
	Unit	EQL	Stock Watering	FW 95%	FW 99%	Freshwater 99%	Long-term Trigger Values	Guidelines 2008								
Dioxins & Furans																
Dibenzofuran	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
Explosives																
1,3,5-Trinitrobenzene	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
2,4-Dinitrotoluene	μg/L	4		65	16				<4	<4	-	<4	<4	<4	<4	-
2,6-dinitrotoluene	μg/L	4							<4	<4	-	<4	<4	<4	<4	-
Nitrobenzene	μg/L	2		550	230				<2	<2	-	<2	<2	<2	<2	-
Nitroaromatics																
2-Picoline	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
4-aminobiphenyl	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
Pentachloronitrobenzene	μg/L	2						300	<2	<2	-	<2	<2	<2	<2	-
Gases																
Free Carbon Dioxide as CO2	mg/L								-	-	-	-	-	-	-	-
Phthalates																
Bis(2-ethylhexyl) phthalate	μg/L	5						100	<10	<10	-	<10	<10	<10	<10	-
Butyl benzyl phthalate	μg/L	2							<2	<2	-	<2	<2	<2	<2	-
Diethylphthalate	μg/L	2		1000	900				<2	<2	-	<2	<2	<2	<2	-
Dimethyl phthalate	μg/L	2		3700	3000				<2	<2	-	<2	<2	<2	<2	-
Di-n-butyl phthalate	μg/L	2		26	9.9				<2	<2	-	<2	<2	<2	<2	-
Di-n-octyl phthalate	μg/L	2							<2	<2	-	<2	<2	<2	<2	-

Environmental Standards HEPA, January 2018, PFAS NEMP 2018 Freshwater 99%



			Location Code	NEL-BH004	NEL-BH004	NEL-BH004	NEL-BH004	NEL-BH004	NEL-BH004	NEL-BH005	NEL-BH008	NEL-BH030	NEL-BH030	NEL-BH030	NEL-BH030
			Fleid ID	NEL-BH004_2.0-2.45m	NEL-BH004_9.05m	NEL-BH004_15.0-15.45m	NEL-BH004_19.5-19.95m	NEL-BH004_19.5-19.95m	NEL-BH004_23.9-24.0m	NEL-BH005_4.11-4.56m	NEL-BH008_10.0-10.1m	NEL-BH030 (17.02m)	NEL-BH030 (18.68m)	NEL-BH030 (26.71m)	NEL-BH030 (43.25m)
			Date	6/04/2018	6/04/2018	6/04/2018	6/04/2018	23/04/2018	23/04/2018	6/04/2018	6/04/2018	2/09/2017	2/09/2017	2/09/2017	9/09/2017
			Depth	2 - 2.45	9.05 - 9.15	15 - 15.45	19.5 - 19.95	19.5 - 19.95	23.9 - 24	4.11 - 4.56	10 - 10.1	17.02 - 17.12	18.68 - 18.78	26.71 - 26.81	43.25 - 43.35
			Matrix Type	Rock	Soil	Rock	Rock	Rock	Rock	Soil	Rock	Rock	Rock	Rock	Rock
			Lab Report Number	EM1805796	EM1805796	EM1805796	EM1805796	EM1806836	EM1806836	EM1805796	EM1805796	EM1712819	EM1712819	EM1712819	EM1712819
					•		•	•							
	Unit	EQL	EPA VIc 655.1												
ASS - ANC															T
ANC as CaCO3	% CaCO3	0.1			-	-	-	0.4		-	0.7	-	-		-
ANC as H2SO4	kg H2SO4 eq/t	0.5				-	-	3.6		-	6.5	-	-	-	-
Fizz Rating	Fizz Unit	0		-	-			0		-	0	-	-	-	-
Acid Neutralising Capacity	% CaCO3	0.01			-		-		-			-	-		-
Acid Neutralising Capacity (acidity units)	mole H+/t	10		-	-			-		-	-	-	-	-	-
Acid Neutralising Capacity (sulfur units)	%S	0.01			-			-							
NA .		1			İ	İ		1		i e				1	1
Resistivity at 25°C	ohm cm	10			560	-	-	820	480	-	1,100		-		-
sulfidic - Titratable Sulfidic Acidity	% PYRITE S	0.02			< 0.020		<0.020		-	< 0.020	-	< 0.020	0.094	0.076	< 0.020
NAG (pH 4.5)	kg H2SO4/t	0.1			-	-	-	<0.1	-	-	<0.1	<0.1	0.3	<0.1	<0.1
NAG (pH 7.0)	ka H2SO4/t	0.1			-			<0.1			5.1	<0.1	2.0	1.1	<0.1
Net Acid Production Potential	kg H2SO4/t	0.5	< 4.5-					-3.0			-6.5	-6.2	-2.8	-4.1	-8.6
Inorganics												 			+
Moisture (%)	%	1			20.6			18.3	18.2		<1.0				
pH (Initial)	pH Units	0.1		-	20.0			10.0	10.2		-1.0				
pH (Final)	pH Units	0.1										3.3	3.4	3.5	3.7
pH (aqueous extract)	pH Units	0.1							-		-	2.9	2.9	2.9	2.9
pH (after HCL)	pH Units	0.1										-			
Sulfur as S	%							0.02			<0.01				
pH (Saturated Paste)		 						0.02			-0.01				+
pH (Saturated Paste)	pH Unit	0.1			7.0			6.7	6.6		7.3				
ASS - pH	p	0.1			7.0			0.7	0.0		1.0				+
pHKCI	pH Units	0.1		6.8	6.7	6.4	6.5	7.0		6.6	6.3	6.5	6.4	6.2	7.9
pH-OX	PH UNITS	0.1	0	-	6.8		6.4	7.2		7.3	6.3	7.2	4.1	4.6	7.5
ASS - Acidity Trail	11101110	0.1			0.0	·	0.4	1.2	-	1.5	0.3	1.2	9.1	4.0	7.5
Titratable Actual Acidity	mole H+/t	2		<2	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2
Titratable Actual Acidity (sulfur units)	%S	0.02		<0.02	<0.020	<0.02	<0.020	<0.02		<0.020	<0.02	<0.020	<0.020	<0.020	<0.020
Titratable Peroxide Acidity	mole H+/t	2		-0.02	<2	-0.02	2	-0.02	-	<2	-0.02	<2	58	48	<2
Titratable Peroxide Acidity (sulfur units)	%S	0.02			<0.020		<0.020		-	<0.020		<0.020	0.094	0.076	<0.020
Titratable Sulfidic Acidity	mole H+/t	2			<2		2	- :	-	<0.020		<0.020	58	48	<0.020
ASS - Sulfur Trail		-			~	· ·			<u> </u>	~~	 	~	30	40	+
KCI Extractable Sulfur	%S	0.02			<0.020		<0.020		_	<0.020		<0.020	<0.020	<0.020	< 0.020
Peroxide Sulfur	%S	0.02			0.065		<0.020			<0.020	-	<0.020	0.132	0.110	0.021
Peroxide Sultur Peroxide Oxidisable Sulfur (acidity units)	%S mole H+/t	10			0.065	-	<0.020		-	<0.020	-	<0.020	0.132 82	0.110	13
Peroxide Oxidisable Sulfur (acidity units)	%S	0.02			0.065		<0.020	- :		<0.020		<0.020	0.132	0.110	0.021
ASS - Calcium Values	/8-3	0.02			0.005	-	~0.020		-	~0.020		~0.020	0.132	0.110	0.021
ASS - Calcium Values KCI Extractable Calcium	%Ca	0.00			0.052		-0.000			0.041		0.000	0.026	0.007	0.054
	%Ca %Ca	0.02			0.052	-	<0.020	-	-	0.041	-	0.028		0.027 0.027	0.054
Calcium in Peroxide		0.02		•		-	<0.020	-	•		-		0.026		
Acid Reacted Calcium	%Ca	0.02			<0.020	-	<0.020	-	-	<0.020	-	<0.020	<0.020	<0.020	<0.020
Acid Reacted Calcium (acidity units)	mole H+/t			-	<10	-	<10	-	-	<10	-	<10	<10	<10	<10
Acid Reacted Calcium (sulfur units)	760	0.02			< 0.020		< 0.020	-	-	<0.020	-	< 0.020	< 0.020	<0.020	<0.020

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GHD

Appendix J Table 6 Summary of Soil Analytical Results for Acid Sulphate Parameters

		Location Co	de	NEL-BH031	NEL-BH031	NEL-BH033	NEL-BH033	NEL-BH033	NEL-BH033	NEL-BH033	NEL-BH034	NEL-BH034	NEL-BH034	NEL-BH034	NEL-BH034
		Fleid ID		NEL-BH031_10.04-10.11m	NEL-BH031_20.03-20.13s	m NEL-BH033 (12.4m)	NEL-BH033 (21.4r	n) NEL-BH033 (24.68m)	NEL-BH033 (26.33m)	NEL-BH033 (29.74m)	NEL-BH034 (7.9m)	NEL-BH034 (9.28m)	NEL-BH034 (12.05m)	NEL-BH034 (15.95m)	NEL-BH034 (22.9m)
		Date		6/04/2018	6/04/2018	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	12/07/2017
		Depth		10.04 - 10.11	20.03 - 20.13	12.4 - 12.5	21.4 - 21.5	24.68 - 24.78	26.33 - 26.43	29.74 - 29.84	7.9 - 8	9.28 - 9.38	12.05 - 12.15	15.95 - 16.05	22.9 - 23
		Matrix Type	0	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock
		Lab Report	Number	EM1805796	EM1805796	EM1712011	EM1712011	EM1712011	EM1712011	EM1712011	EM1712011	EM1712011	EM1712011	EM1712011	EM1712011
Ur	nlt E	QL EPA Vic	655.1												
ASS - ANC															
ANC as CaCO3 %	CaCO3	0.1		0.5	1.5	-	-	-	-	-	-	-	-	-	-
ANC as H2SO4 kg	H2SO4 eq/t	0.5		5.3	14.7	-	-	-	-	-	-	-	-	-	-
Fizz Rating Fiz	izz Unit	0		0	1	-	-	-	-	-	-	-	-	-	-
		0.01		-	-	-	-	-	-	-	-	-	-	-	-
Acid Neutralising Capacity (acidity units) me	iole H+/t	10		-		-	-	-	-	-	-	-	-	-	-
Acid Neutralising Capacity (sulfur units) %:	S	0.01		-	-	-	-	-	-	-	-	-	-	-	-
NA															
Resistivity at 25°C oh	nm cm	10		1,220	1,630	-	-	-	-	-	-	-	-	-	-
sulfidic - Titratable Sulfidic Acidity %	PYRITE S	0.02				< 0.020	< 0.020	< 0.020	< 0.020	<0.020	< 0.020	< 0.020	0.054	< 0.020	<0.020
NAG (pH 4.5) kg	H2SO4/t	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1	<0.1	<0.1
		0.1		<0.1	0.4	<0.1	0.6	<0.1	<0.1	< 0.1	0.2	< 0.1	0.9	0.4	<0.1
Net Acid Production Potential kg	H2SO4/t	0.5 < 4.	5-	-5.3	-7.4	-1.8	-2.0	-5.7	-5.2	-5.7	-5.8	-6.4	-2.6	-5.2	-8.8
Inorganics															
Moisture (%) %	1	1		<1.0	<1.0	-	-	-	-		-	-		-	-
pH (Initial) pH	H Units	0.1			-	6.7	6.5	6.9	6.8	6.7	6.5	6.3	5.9	6.2	6.3
		0.1		-	-	5.4	5.4	5.4	5.2	5.6	5.3	5.5	5.1	5.1	5.2
pH (aqueous extract) pF	H Units	0.1				5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	H Units	0.1				1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.7	1.7	1.7
Sulfur as S %				< 0.01	0.24	-			-	-	-	-			
pH (Saturated Paste)						_				+					
	H Unit	0.1		7.6	8.3		-	-							
ASS - pH		***				_				+					
	H Units	0.1		6.4	8.6	6.8	6.1	6.3	6.1	6.0	5.8	6.2	6.4	8.1	8.8
		0.1 0		7.3	6.8	7.2	6.6	7.1	7.2	7.0	7.0	8.5	4.8	6.8	7.6
ASS - Acidity Trail					0.0	7.2	0.0		1.2	1.0	7.0	0.0	+.0	3.0	
	iole H+/t	2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Titratable Actual Acidity (sulfur units) %		0.02		<0.02	<0.02	<0.020	<0.020	<0.020	<0.020	<0.020	< 0.020	<0.020	<0.020	<0.020	<0.020
		2		-0.02	~0.02	<2	9	<2	<2	8	<2	<2	34	9	<2
Titratable Peroxide Acidity (sulfur units) %		0.02			-	<0.020	<0.020	<0.020	<0.020	<0.020	< 0.020	<0.020	0.054	<0.020	<0.020
		2				<2	9	<2	<2	8	<2	<2	34	9	<2
ASS - Sulfur Trail		-					<u> </u>	-	 	+	-		54		-
KCI Extractable Sulfur %	s	0.02				<0.020	<0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Peroxide Sulfur %		0.02				<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.083	0.069	0.268
	iole H+/t	10				<10	<10	<10	<10	<10	<10	<10	52	43	167
Peroxide Oxidisable Sulfur %:		0.02				<0.020	<0.020	<0.020	<0.020	<0.020	< 0.020	<0.020	0.083	0.069	0.268
ASS - Calcium Values					-	0.020	0.020	10.020	5.020	3.020	5.020	5.02.0	2.000	2.000	
	Ca	0.02				<0.020	<0.020	<0.020	< 0.020	<0.020	0.030	0.022	<0.020	0.021	0.043
		0.02			-	<0.020	<0.020	<0.020	<0.020	<0.020	0.030	0.022	<0.020	0.021	0.043
		0.02		-	-	<0.020	<0.020	<0.020	<0.020	<0.020	< 0.020	<0.024	<0.020	<0.037	0.224
	ica iole H+/t	10		-		<10	<10	<10	<10	<10	<10	<10	<10	<10	112
Acid Reacted Calcium (acidity units)		0.00		-	-	N 10	N 10	>10	>10	~10	~10	>10	>10	>10	112

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		- 6	Location Code	NEL-BH037	NEL-BH037	NEL-BH037	NEL-BH037	NEL-BH039	NEL-BH039	NEL-BH039	NEL-BH039	NEL-BH039	NEL-BH042	NEL-BH042	NEL-BH042	NEL-BH042	NEL-BH042
				NEL-BH037 0.45-0.5m		NEL-BH037 14.98-15.10m					NEL-BH039 14.5-14.91m		NEL-BH042 (15.5m)	NEL-BH042 (31.46m)		NEL-BH042 14.97-15.08m	NEL-BH042 25.15-25.25r
				23/04/2018		6/04/2018	6/04/2018	6/04/2018	6/04/2018		23/04/2018	23/04/2018	16/09/2017	16/09/2017	16/09/2017	6/04/2018	6/04/2018
				0.45 - 0.5		14.98 - 15.1	25 - 25.08	2.4 - 2.5			14.5 - 14.91	19 - 19.45	15.5 - 15.6	31.46 - 31.56	45.75 - 45.85	14.97 - 15.08	25.15 - 25.25
				Rock	Rock	Rock	Rock	Rock			Rock	Rock	Rock	Rock	Rock	Rock	Rock
			Lab Report Number			EM1805796	EM1805796	EM1805796			FM1806836	FM1806836	EM1712819	EM1712819	EM1712819	EM1805796	EM1805796
			Lab Report Number	EM 1000030	EM1003/90	EM1005/96	EW1000790	EW 1002/30	EW1002/90	EM1003/90	EM1000030	EM1000030	EM1/12019	EM1712019	EM1712019	EW1003/90	EM 1005/90
	Linit	FOL.	EPA VIc 655.1														
ASS - ANC																	
ANC as CaCO3	% CaCO3	0.1			-	0.3	0.4		-							0.8	
ANC as H2SO4	ka H2SO4 ea/t	0.5			-	2.6	4.4		-			-				7.7	
Fizz Rating	Fizz Unit	0			-	0	0									0	
Acid Neutralising Capacity	% CaCO3	0.01			-				-						-		-
Acid Neutralising Capacity (acidity units)	mole H+/t	10			-	-	-									-	
Acid Neutralising Capacity (sulfur units)	%S	0.01				-										-	
NA .						1							†	†		1	
Resistivity at 25°C	ohm cm	10			1.340	2.100	790		1.040	1.110	1.000	680	-	-	-	3.160	830
sulfidic - Titratable Sulfidic Acidity	% PYRITE S	0.02				-			<0.020	-	-		<0.020	0.108	0.227	-	-
NAG (pH 4.5)	ka H2SO4/t	0.1		-	-	<0.1	3.7		-0.020	-	-		<0.1	0.4	3.2	<0.1	-
NAG (pH 7.0)	kg H2SO4/t	0.1		-	-	<0.1	6.6	-	-		-		<0.1	2.1	6.0	<0.1	-
Net Acid Production Potential	kg H2SO4/t	0.5	< 4.5-	-		-2.6	3.9						-7.2	-3.1	2.5	-7.1	
Inorganics												1					
Moisture (%)	96	1		-	9.4	<1.0	<1.0	-	15.5	21.1	37.4	27.9	-	-	-		-
pH (Initial)	pH Units	0.1			0.4	~1.0	VI.0		10.0	21.1	37.4	21.5		-	- :		
pH (Final)	pH Units	0.1		-	-			-			-		4.6	4.1	4.2		
pH (aqueous extract)	pH Units	0.1		-	-			-	-		-		2.9	2.9	2.9		
pH (after HCL)	pH Units	0.1			- :				- :	- :			2.0	2.0	2.0		
Sulfur as S	q _L	0.1		-		< 0.01	0.27	-	-							0.02	
pH (Saturated Paste)	~					~0.01	0.27	-	-		-	-			-	0.02	-
pH (Saturated Paste)	pH Unit	0.1			7.5	6.9	6.3	-	7.0	6.2	6.6	4.5	-	-	-	7.6	6.9
ASS - pH	prioni	0.1			7.5	0.5	0.3		7.0	0.2	0.0	4.5				7.0	0.0
pHKCl	pH Units	0.1		7.0	-	6.4	6.0	7.1	6.6	5.9			6.3	6.5	6.5		
pH-OX	PH UNITS	0.1	0	7.0		7.1	3.3	7.1	7.0	3.5		-	7.1	4.1	3.3	7.2	
ASS - Acidity Trail	FITONITS	0.1	0			7.1	3.3	-	7.0		-	-	7.1	4.1	3.3	1.2	
Titratable Actual Acidity	mole H+/t	0		<2	-	<2	<2	<2	<2	5	_		<2	<2	<2		_
Titratable Actual Acidity (sulfur units)	%S	0.02								-						-	
Titratable Actual Actualy (sulfur units) Titratable Peroxide Actualty	mole H+/t	0.02		<0.02		<0.02	<0.02	<0.02	<0.020	<0.02	-	-	<0.020 <2	<0.020	<0.020	-	-
Titratable Peroxide Acidity Titratable Peroxide Acidity (sulfur units)	mole H+/t %S			-	-	-	-	-	<0.020	-	-	-	<0.020	0.108		-	-
Titratable Peroxide Acidity (sulfur units) Titratable Sulfidic Acidity	%S mole H+/t	0.02		-	-	-	-	-	<0.020	-	-			0.108	0.227	-	-
	IIIOIE П+/L	2		-	-	-	-	-	*2	-	-	-	<2	6/	142	-	-
ASS - Sulfur Trail	8/6	0.00					-		-0.000				-0.000	-0.000	-0.000	1	
KCI Extractable Sulfur	%S	0.02		-	-	-	-	-	<0.020	-	-		<0.020	<0.020	<0.020	-	-
Peroxide Sulfur	%S	0.02			-	-	-	-	<0.020	-	-		<0.020	0.139	0.269		-
Peroxide Oxidisable Sulfur (acidity units)	mole H+/t	10		-	-	-	-	-	<10	-	-		<10	86	168	-	-
Peroxide Oxidisable Sulfur	%S	0.02			-	-	-	-	<0.020	-	-	-	< 0.020	0.139	0.269	-	-
ASS - Calcium Values																	
KCI Extractable Calcium	%Ca	0.02			-	-	-	-	0.120	-	-		0.036	0.020	<0.020		-
Calcium in Peroxide	%Ca	0.02			-	-	-	-	0.120	-	-	-	0.039	0.025	0.024	-	-
Acid Reacted Calcium	%Ca	0.02			-	-	-	-	<0.020		-	-	< 0.020	<0.020	0.024		-
Acid Reacted Calcium (acidity units)	mole H+/t	10		-	-	-	-	-	<10	-	-	-	<10	<10	12		-
Acid Reacted Calcium (sulfur units)	%S	0.02			-	-	-	-	< 0.020	-	-	-	< 0.020	< 0.020	<0.020	-	-

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		Location Code	NEL-BH043	NEL-BH043	NEL-BH043	NEL-BH043	NEL-BH043	NEL-BH057	NEL-BH057	NEL-BH057	NEL-BH057	NEL-BH057	NEL-BH058	NEL-BH058	NEL-BH058	NEL-BH059	NEL-BH059	NEL-BH059
		Field ID	NEL-BH043 (5.95m)		NEL-BH043 (11.57m)				NEL-BH057 (15.43m)		NEL-BH057 (40.85m)		NEL-BH058 (18.22m)			NEL-BH059 5.5m	NEL-BH059 10.04-10.18m	
		Date	12/07/2017	12/07/2017	12/07/2017	12/07/2017	11/07/2017	2/09/2017	2/09/2017		2/09/2017	2/09/2017	24/07/2017	24/07/2017	24/07/2017	6/04/2018	6/04/2018	6/04/2018
		Depth	5.95 - 6.05	11 - 11.1	11.57 - 11.67	18.4 - 18.5	34.6 - 34.7	5.64 - 5.74	15.43 - 15.53		40.85 - 40.95	48 - 48.1	18.22 - 18.32	19.07 - 19.17	22.85 - 22.95	5.5 - 5.6	10.04 - 10.18	20 - 20.21
		Matrix Type	Rock	Rock	Rock	Rock	Rnck	Rnck	Rock		Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock
		Lab Report Numbe		EM1712011	EM1712011	EM1712011	EM1712011	EM1712819	EM1712819		EM1712819	EM1712819	EM1712011	EM1712011	EM1712011	EM1805796	EM1805796	EM1805796
		Lab Report Numbe	EM1/12011	EM1712011	EM1/12011	EM1/12011	EM1/12011	EM1712019	EM1/12019	EM1712019	EM1/12019	EM1712019	EM1/12011	EM1712011	EM1/12011	EM1005/90	EW1002/30	EW 1002/30
	Unit EQL	EPA VIc 655.1																
88 - ANC	Olik EGA	EFA VIC 000.1															1	
ANC as CaCO3	% CaCO3 0.											_				_	0.8	0.8
ANC as H2SO4	ka H2SO4 ea/t 0.			-			-	-		-	-	-		-			7.6	7.7
Fizz Rating	Fizz Unit 0							-								-	0	0
Acid Neutralising Capacity	% CaCO3 0.0							-				-					-	-
Acid Neutralising Capacity (acidity units)	mole H+/t 10							-										
Acid Neutralising Capacity (sulfur units)	%S 0.0			- :		-	-	-	-	- :			-	-			1	-
		-															+	
Resistivity at 25°C	ohm cm 10					-	-								-	540	1.320	1,150
sulfidic - Titratable Sulfidic Acidity	% PYRITE S 0.0		< 0.020	<0.020	0.086	0.140	0.148	<0.020	<0.020	0.131	<0.020	0.058	< 0.020	0.056	0.120	< 0.020	1,020	1,100
NAG (pH 4.5)	kg H2SO4/t 0.		<0.1	<0.1	0.000	2.1	1.9	<0.1	<0.1	1.5	<0.1	<0.1	<0.1	<0.1	1.5	~0.020	<0.1	<0.1
NAG (pH 7.0)	kg H2SO4/t 0.		<0.1	<0.1	2.0	3.6	3.6	0.4	<0.1	3.2	<0.1	0.2	0.7	0.9	3.7		<0.1	0.9
Net Acid Production Potential	kg H2SO4/t 0.		-6.2	-6.2	-0.9	<0.5	<0.5	-3.7	-4.1	1.4	-10.4	<0.5	-4.6	-6.0	-1.5		-7.6	-5.6
organics			-0.2	-0.2	-0.0	-0.0	-0.0	-0.7	-4.1	1.00	-10.4	-0.0	-4.0	-0.0	-1.0		-1.0	-0.0
Moisture (%)	% 1			-				-	-	-	-	-			-	19.1	1.1	<1.0
pH (Initial)	pH Units 0.	1	6.7	6.7	5.7	5.9	5.8	-	-			-	6.1	6.0	5.8	-		-1.0
pH (Final)	pH Units 0.		5.6	5.4	5.6	5.4	5.6	4.4	4.2	3.3	3.8	4.4	5.3	5.1	5.4			
pH (aqueous extract)	pH Units 0.		5.0	5.0	5.0	5.0	5.0	2.9	2.9	2.9	2.9	2.9	5.0	5.0	5.0	-		
pH (after HCL)	pH Units 0.		1.8	1.8	1.8	1.8	1.7	-	2.0	-	-	-	1.7	1.7	1.7			
Sulfur as S	%		-	- 1.0	1.0	1.0		-				-					<0.01	0.07
H (Saturated Pasts)																	-0.01	0.01
pH (Saturated Paste)	pH Unit 0.					-		-	-	-				-	-	7.4	7.8	7.7
88 - pH	p															1.4	1.0	1.7
pHKCl	pH Units 0.	1	6.1	6.3	6.1	6.4	6.2	6.3	6.4	6.2	6.3	6.5	5.7	6.7	6.4	6.8	7.0	6.6
pH-OX	PH UNITS 0.		7.4	8.2	4.2	3.4	4.0	6.9	7.1	3.6	7.8	6.2	6.5	5.1	3.7	7.1	7.6	6.7
38 - Acidity Trail	0.		7.9	0.2	4.2	3.4	4.0	0.5	7.1	3.0	7.0	0.2	0.0	0.1	3.7	7.1	7.0	0.7
Titratable Actual Acidity	mole H+/t 2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2	<2	<2	<2	<2	<2
Titratable Actual Acidity (sulfur units)	%S 0.0	2	< 0.020	<0.020	<0.020	< 0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	< 0.020	<0.020	<0.020	< 0.020	<0.02	<0.02
Titratable Peroxide Acidity	mole H+/t 2		<2	<2	54	87	92	6	<2	82	4	36	7	35	75	<2	-0.02	-0.02
Titratable Peroxide Acidity (sulfur units)	%S 0.0		<0.020	<0.020	0.086	0.140	0.148	<0.020	<0.020	0.131	<0.020	0.058	<0.020	0.056	0.120	<0.020		
Titratable Sulfidic Acidity	mole H+/t 2		<2	<2	54	87	92	6	<2	82	4	36	5	35	75	<2		1
38 - Sulfur Trail						- 01				UE.	-				10		+	
KCI Extractable Sulfur	%S 0.0	2	<0.020	<0.020	<0.020	< 0.020	0.022	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	< 0.020	< 0.020		-
Peroxide Sulfur	%S 0.0		<0.020	<0.020	0.147	0.186	0.276	<0.020	<0.020	0.160	0.061	0.094	<0.020	0.083	0.168	<0.020		
Peroxide Oxidisable Sulfur (acidity units)	mole H+/t 10		<10	<10	92	116	158	<10	<10	100	38	59	<10	52	105	<10	- :	-
Peroxide Oxidisable Sulfur	%S 0.0		<0.020	<0.020	0.147	0.186	0.253	<0.020	<0.020	0.160	0.061	0.094	<0.020	0.083	0.168	<0.020	-	-
S - Calcium Values			0.020	5.02.0	2.141	3.100	3.200	3.020	3.020	2.100	2.001	2.004	3.020	3.000	3.100	3.020	<u> </u>	
KCI Extractable Calcium	%Ca 0.0	2	0.025	0.026	<0.020	< 0.020	<0.020	0.042	<0.020	<0.020	<0.020	< 0.020	0.026	0.022	<0.020	0.049		
Calcium in Peroxide	%Ca 0.0		0.042	0.020	<0.020	<0.020	0.030	0.042	0.021	<0.020	<0.020	<0.020	0.020	0.025	<0.020	0.050	- :	-
Acid Reacted Calcium	%Ca 0.0		<0.020	<0.020	<0.020	<0.020	0.030	<0.020	0.021	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	- :	-
Acid Reacted Calcium (acidity units)	mole H+/t 10		<10	<10	<10	<10	15	<10	10	<10	<10	<10	<10	<10	<10	<10	1	-
Acid Reacted Calcium (sulfur units)	%S 0.0		<0.020	<0.020	<0.020	<0.020	0.024	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020		
ricia ricacica Gaician (Sullul Ullis)	700	4	~0.020	~0.020	~0.020	~0.020	0.024	~0.020	~0.020	~0.020	~0.020	~v.UZU	~0.020	~0.020	~0.020	~0.020	-	

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			Location Code	NEL-BH067	NEL-BH067	NEL-BH068	NEL-BH068	NEL-BH068	NEL-BH070	NEL-BH070	NEL-BH073	NEL-BH073	NEL-BH074	NEL-BH074	NEL-BH074	NEL-BH076	NEL-BH076
			Field ID	NEL-BH067 12.06-12.21m		NEL-BH068 8.20-8.30m	NEL-BH068 14.96-15.06m	NEL-BH068 19.97-20.05m	NEL-BH070 2.0m	NEL-BH070 5.0m	NEL-BH073 12.0-12.75n	NEL-BH073 24.90-25.06m	NEL-BH074 20.0-20.14m	NEL-BH074 30.0r	NEL-BH074 41.89-42.0m	NEL-BH076 19.88-20.03m	NEL-BH076 30.0-30.
			Date	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	23/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018
			Depth	12.06 - 12.21	25 - 25.13	8.2 - 8.3	14.96 - 15.06	19.97 - 20.05	2 - 2.1	5 - 5.1	12 - 12.75	24.9 - 25.06	20 - 20.14	30 - 30.1	41.89 - 42	19.88 - 20.03	30 - 30.13
			Matrix Type	Rock	Rock	Soil	Rock	Rock	Soil	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock
			Lab Report Number	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1806836	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796
		Т	and respect reasons of									1					
	Unit	EQL	EPA VIc 655.1														
BS - ANC																	
ANC as CaCO3	% CaCO3	0.1		0.3	0.4	0.2	-			-		0.8	0.7	0.8	1.1	-	3.2
ANC as H2SO4	ka H2SO4 ea/t	0.5		3.2	4.0	1.8					-	8.2	7.1	7.8	10.4		31.8
Fizz Rating	Fizz Unit	0		0	0	0	-			-		1	0	0	1	-	2
Acid Neutralising Capacity	% CaCO3	0.01		-							-	-					-
Acid Neutralising Capacity (acidity units)	mole H+/t	10		_			_	_				_	-		_	_	
Acid Neutralising Capacity (sulfur units)	%S	0.01				-			-	-	-						-
A		3.01					+			1	1	1		+	1	<u> </u>	
Resistivity at 25°C	ohm cm	10		5.680	670	11,200	2.650	1.850	-	1.890	2.340	2.160	1.520	1.770	1.880	770	840
sulfidic - Titratable Sulfidic Acidity	% PYRITE S	0.02		-		-	2,000	1,000	<0.020	<0.020	2,040	0.145	1,020	0.042	1,000		
NAG (pH 4.5)	kg H2SO4/t	0.01		<0.1	<0.1	<0.1			-0.020	-0.020		<0.1	<0.1	<0.1	<0.1		<0.1
NAG (pH 7.0)	kg H2SO4/t	0.1		0.4	0.6	<0.1					-	0.9	0.9	0.7	0.8		<0.1
Net Acid Production Potential	kg H2SO4/t	0.1	< 4.5-	-3.2	0.9	-1.8			- :	-	-	-2.7	-4.6	-5.4	-6.1		-29.0
organics	1.0	0.0		-0.2	0.0	-1.0	+	+		_	_		-4.0	-0.4	-0.1	+	-20.0
Moisture (%)	6/	- 1		<1.0	<1.0	<1.0	<1.0		-	-	27.6	<1.0	<1.0	<1.0	<1.0	<1.0	4.7
pH (Initial)	pH Units	0.1		*1.0	<1.0	<1.0	<1.0	-	- :		27.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.7
ph (initial) pH (Final)	pH Units	0.1		- :	-	-		-	- :		-			- :	-		-
pH (aqueous extract)	pH Units	0.1										_					
pH (after HCL)	pH Units	0.1		- :	- :	-	-	-	-		-	-		-	-	-	-
Sulfur as S	pn units	0.1		<0.01								0.18	0.08		0.14		0.09
	/0	-		<0.01	0.16	<0.01	-	-	-	-	-	0.16	0.06	0.08	0.14		0.09
H (Saturated Paste) pH (Saturated Paste)	pH Unit	0.1				5.2								7.7	7.7		
	pri Unit	0.1		5.2	5.8	5.2	6.9	7.5	-	5.2	4.0	7.4	7.6	7.7	1.1	5.6	8.1
38 - pH		١															
pHKCI pH-OX	pH Units PH UNITS	0.1		4.9	5.7	4.8		-	8.6	5.1		6.6	6.5	6.7	6.7	-	7.0
	PHUNIIS	0.1	0	6.9	6.7	7.0	-	-	7.7	4.9	-	5.7	6.6	6.4	6.7	-	7.7
88 - Acidity Trail																	
Titratable Actual Acidity	mole H+/t	2		6	<2	6			<2	9	-	<2	<2	<2	<2		<2
Titratable Actual Acidity (sulfur units)	%S	0.02		<0.02	< 0.02	<0.02			<0.020	< 0.020	-	<0.020	<0.02	<0.020	<0.02		< 0.02
Titratable Peroxide Acidity	mole H+/t	2		•	-	-	-	-	<2	15	-	90	-	26	-	-	-
Titratable Peroxide Acidity (sulfur units)	%S	0.02				-	-	-	<0.020	0.024	-	0.145	-	0.042	-	-	-
Titratable Sulfidic Acidity	mole H+/t	2				-	-	-	<2	6	-	90	-	26	-	-	-
8 - Sulfur Trail		1										1					
KCI Extractable Sulfur	%S	0.02			-	-	-	-	<0.020	< 0.020	-	<0.020	-	< 0.020	-		-
Peroxide Sulfur	%S	0.02				-	-		<0.020	<0.020	-	0.152	-	0.065		-	-
Peroxide Oxidisable Sulfur (acidity units)	mole H+/t	10				-	-	-	<10	<10	-	95	-	40		-	-
Peroxide Oxidisable Sulfur	%S	0.02				-	-	-	<0.020	<0.020	-	0.152	-	0.065	-	-	-
8 - Calcium Values																	
KCI Extractable Calcium	%Ca	0.02				-	-	-	0.202	0.026		<0.020	-	<0.020	-	-	-
Calcium in Peroxide	%Ca	0.02				-	-	-	0.246	0.033		<0.020	-	<0.020	-	-	-
Acid Reacted Calcium	%Ca	0.02				-			0.044	< 0.020	-	< 0.020	-	<0.020		-	
Acid Reacted Calcium (acidity units)	mole H+/t	10				-		-	22	<10	-	<10	-	<10		-	-
Acid Reacted Calcium (sulfur units)	%S	0.02				-			0.035	< 0.020	-	< 0.020	-	< 0.020	-		

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			Location Code	NEL-BH076	NEL-BH083	NEL-BH083	NEL-BH084	NEL-BH084	NEL-BH084	NEL-BH084	NEL-BH085	NEL-BH085	NEL-BH087	NEL-BH087
			Field ID	NEL-BH076_39.79-40.02m	NEL-BH083_14.84-15.0m	NEL-BH083_25.0-25.22m	NEL-BH084_15.3-15.40m	NEL-BH084_20.0-20.08m	NEL-BH084_29.63-29.79m	NEL-BH084_37.95-38.05m	NEL-BH085_5.0-5.12m	NEL-BH085_15.0-15.1m	NEL-BH087_5.60-5.79m	NEL-BH087_14.90-15.10
			Date	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018
			Depth	39.79 - 40.02	14.84 - 15	25 - 25.22	15.3 - 15.4	20 - 20.08	29.63 - 29.79	37.95 - 38.05	5 - 5.12	15 - 15.1	5.6 - 5.79	14.9 - 15.1
			Matrix Type	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock
			Lab Report Number	FM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796
		_	and respect teams of											
	Unit	EQL	EPA VIc 655.1											
ASS - ANC	Olik	rate	EI A 10 000.1			T	T	I	I	1			T	
ANC as CaCO3	% CaCO3	0.1			0.7	0.7	0.7		0.5	0.5	-		0.4	0.7
ANC as H2SO4	kg H2SO4 eg/t	0.5			7.0	7.0	6.6		4.9	4.6			3.6	6.6
Fizz Rating	Fizz Unit	0.0			0	0	0.0	-	0	0	-		0.0	0.0
Acid Neutralising Capacity	% CaCO3	0.01		- :		-	-		-	-	-	-	-	
Acid Neutralising Capacity (acidity units)	mole H+/t	10							-				-	
Acid Neutralising Capacity (sulfur units)	%S	0.01		- :										- :
VA	700	0.01		 						+		+		
Resistivity at 25°C	ohm cm	10		510	1.860	3.460		1.110	1.530	780	1.410	1.260	1.200	1.320
sulfidic - Titratable Sulfidic Acidity	% PYRITE S	0.02			1,000	3,400		1,110	0.140	780	1,410	1,200	1,200	1,320
NAG (pH 4.5)	kg H2SO4/t	0.02			1.6	2.0	<0.1		2.0	8.0			<0.1	<0.1
NAG (pH 4.5)	kg H2SO4/t	0.1			3.6	4.1	<0.1		4.9	10.2			0.2	<0.1
NAG (pH 7.0) Net Acid Production Potential	kg H2SO4/t	0.1	< 4.5-	- :	3.6 <0.5	4.1 <0.5	<0.1 -6.6	-	4.9 -1.2	10.2		-	-3.6	-6.6
	kg 112504/t	0.5	K 4.5-	-	<0.5	<u.5< td=""><td>-6.6</td><td></td><td>-1.2</td><td>10.1</td><td>-</td><td>-</td><td>-3.6</td><td>-6.6</td></u.5<>	-6.6		-1.2	10.1	-	-	-3.6	-6.6
norganics		_												
Moisture (%)	%	1		<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	-	-	<1.0	<1.0
pH (Initial)	pH Units	0.1		•	•	-	-	-	-	-	-	-	-	
pH (Final)	pH Units	0.1					•				-	-		
pH (aqueous extract)	pH Units	0.1		-			-	-	-	-			-	
pH (after HCL)	pH Units	0.1		•	•	-	-	-	-	-	-	-	-	
Sulfur as S	%			-	0.23	0.24	<0.01	-	0.12	0.48	-		< 0.01	< 0.01
pH (Saturated Paste)														
pH (Saturated Paste)	pH Unit	0.1		7.5	8.0	8.4	-	6.4	6.9	6.9	7.3	7.2	7.6	7.8
ASS - pH														
pHKCl	pH Units	0.1		-	6.7	6.7	6.3	-	6.2	5.3	-		6.5	6.8
pH-OX	PH UNITS	0.1	0		3.6	3.6	7.1	-	4.0	3.0	-	-	7.0	7.8
ASS - Acidity Trail														
Titratable Actual Acidity	mole H+/t	2			<2	<2	<2	-	<2	2	-	-	<2	<2
Titratable Actual Acidity (sulfur units)	%S	0.02			< 0.02	<0.02	<0.02	-	<0.020	< 0.02	-	-	< 0.02	<0.02
Titratable Peroxide Acidity	mole H+/t	2			-	-	-	-	87	-	-	-	-	-
Titratable Peroxide Acidity (sulfur units)	%S	0.02		-	-	-	-	-	0.140	-	-	-	-	-
Titratable Sulfidic Acidity	mole H+/t	2				-	-	-	87	-	-	-	-	-
ASS - Sulfur Trail														
KCI Extractable Sulfur	%S	0.02				-	-	-	<0.020		-		-	
Peroxide Sulfur	%S	0.02		-	-	-	-	-	0.110		-	-	-	
Peroxide Oxidisable Sulfur (acidity units)	mole H+/t	10				-	-	-	69		-		-	
Peroxide Oxidisable Sulfur	%S	0.02				-	-	-	0.110	-	-	-	-	
ASS - Calcium Values							-	-	< 0.020	-	-		-	
ASS - Calcium Values KCI Extractable Calcium	%Ca	0.02			-	-	-							
	%Ca %Ca	0.02			-	-	-	-	<0.020	-	-		-	-
KCI Extractable Calcium														
Calcium in Peroxide	%Ca	0.02			-	-	-	-	<0.020	-	-	-	-	-

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				NEL-BH089	NEL-BH089	NEL-BH092	NEL-BH092	NEL-BH093	NEL-BH095		NEL-BH099	NEL-BH099
			Fleid ID	NEL-BH089_8.70-8.90m	NEL-BH089_15.0-15.7m	NEL-BH092_5.0-5.10m	NEL-BH092_9.85-10.0m	NEL-BH093_5.05-5.17m	NEL-BH095_5.45-5.55m	NEL-BH095_9.97-10.11m	NEL-BH099_10.0-10.10m	NEL-BH099_20.04-20.18m
			Date	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018
			Depth	8.7 - 8.9	15 - 15.7	5 - 5.1	9.85 - 10	5.05 - 5.17	5.45 - 5.55	9.97 - 10.11	10 - 10.1	20.04 - 20.18
			Matrix Type	Rock	Rock	Rock	Rock	Rock	Soil	Rock	Rock	Rock
			Lab Report Number	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796
	Unit	EQL	EPA Vic 655.1		•	•		•		•	•	
ASS - ANC	Olik	EGL	EFA VIC 000.1									
ANC as CaCO3	% CaCO3	0.1		0.3	0.5	0.6	0.5	0.3	0.6	0.6	0.7	0.6
ANC as H2SO4	kg H2SO4 eg/t	0.5		2.9	5.0	6.2	4.7	3.0	6.4	5.9	6.8	5.9
Fizz Rating	Fizz Unit	0		0	0	0	0	0	0	0	0	0
Acid Neutralising Capacity	% CaCO3	0.01					- :				-	
Acid Neutralising Capacity (acidity units)	mole H+/t	10										-
Acid Neutralising Capacity (sulfur units)	%S	0.01			-						-	
NA		-										
Resistivity at 25°C	ohm cm	10		1,130	1,370		910	1,530	2.310		1,860	1,800
sulfidic - Titratable Sulfidic Acidity	% PYRITE S	0.02										-
NAG (pH 4.5)	ka H2SO4/t	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.6
NAG (pH 7.0)	kg H2SO4/t	0.1		0.8	1.1	<0.1	<0.1	<0.1	<0.1	1.7	4.8	3.9
Net Acid Production Potential	kg H2SO4/t	0.5	< 4.5-	-2.9	-5.0	-6.2	-4.7	-3.0	-5.8	-5.9	-6.8	-1.9
Inorganics		-										
Moisture (%)	%	- 1		<1.0	<1.0		21.4	<1.0	18.3		<1.0	<1.0
pH (Initial)	pH Units	0.1					-				-	-
pH (Final)	pH Units	0.1										-
pH (aqueous extract)	pH Units	0.1										
pH (after HCL)	pH Units	0.1										-
Sulfur as S	%			< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	< 0.01	< 0.01	0.13
pH (Saturated Paste)		-										
pH (Saturated Paste)	pH Unit	0.1		7.4	7.4	-	7.5	7.3	7.4	-	7.6	7.3
ASS - pH												i
pHKCI	pH Units	0.1		6.6	6.2	7.5	6.8	6.4	6.3	6.2	6.4	6.4
pH-OX	PH UNITS	0.1	0	6.7	6.7	7.9	7.4	7.1	7.4	6.7	6.3	4.1
ASS - Acidity Trail												
Titratable Actual Acidity	mole H+/t	2		<2	<2	<2	<2	<2	<2	<2	<2	<2
Titratable Actual Acidity (sulfur units)	%S	0.02		< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Titratable Peroxide Acidity	mole H+/t	2									-	
Titratable Peroxide Acidity (sulfur units)	%S	0.02		-	-	-					-	-
Titratable Sulfidic Acidity	mole H+/t	2									-	
ASS - Sulfur Trail												
KCI Extractable Sulfur	%S	0.02			-	-		-		-	-	-
Peroxide Sulfur	%S	0.02			-						-	-
Peroxide Oxidisable Sulfur (acidity units)	mole H+/t	10									-	
Peroxide Oxidisable Sulfur	%S	0.02			-	-	-	-		-	-	-
ASS - Calcium Values				i								
KCI Extractable Calcium	%Ca	0.02									-	
Calcium in Peroxide	%Ca	0.02			-	-	-	-		-	-	-
Acid Reacted Calcium	%Ca	0.02			-	-	-	-		-	-	-
Acid Reacted Calcium (acidity units)	mole H+/t	10			-	-	-	-		-	-	-
Acid Reacted Calcium (sulfur units)	%S	0.02			-		-	-	-			-

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			1 0 - 1 -			Lucia di Lucia	Lam married	Lance Bridge				Lucia marcana							
			Location Code	NEL-BH100	NEL-BH100	NEL-BH108	NEL-BH110	NEL-BH114	NEL-BH122		NEL-BH124		NEL-BH137	NEL-BH137	NEL-BH150	NEL-BH101	NEL-BH101	NEL-EF-BH009	NEL-EF-BH014
			Fleid ID		NEL-BH100_17.34-17.44m														
			Date	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	23/04/2018	29/06/2018	29/06/2018	4/07/2018	29/06/2018
			Depth	5.1 - 5.3	17.34 - 17.44	5.7 - 5.79	5 - 5.2	5.22 - 5.3	4.56 - 4.64		35.03 - 35.12	45 - 45.1	5 - 5.1	14.87 - 15	5.35 - 5.45	1.9	7.5	2.9	1.5
			Matrix Type	Rock	Rock	Rock	Soil	Rock	Rock	Rock	Rock	Rock	Soil	Rock	Rock	Soil	Soil	Soil	Soil
			Lab Report Number	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1806836	EM1813212	EM1813212	EM1813212	EM1813212
	Unit	EQL	EPA VIc 655.1																
ASS - ANC																			Т
ANC as CaCO3	% CaCO3	0.1		0.6	0.9	0.5	-	0.5	0.7	0.4	1.0	0.8	-	0.6	-	0.8	0.6	-	-
ANC as H2SO4	kg H2SO4 eq/t	0.5		6.0	8.9	5.3	-	4.6	6.6	3.5	9.4	7.5	-	5.9	-	8.1	6.4	-	-
Fizz Rating	Fizz Unit	0		0	1	0	-	0	0	0	1	1		0	-	0	0	-	-
Acid Neutralising Capacity	% CaCO3	0.01		-	-	-	-	-	-	-		-	-	-	-	0.40	0.30	2.00	-
Acid Neutralising Capacity (acidity units)	mole H+/t	10			-	-	-	-	-	-		-	-	-	-	79	59	399	
Acid Neutralising Capacity (sulfur units)	%S	0.01		-	-	-	-	-	-	-	-	-	-	-	-	0.13	0.09	0.64	-
NA.																			
Resistivity at 25°C	ohm cm	10		2,430	1,040	-	-	1,040	-	1,420	1,720	1,570	-	-	14,300	520	730	950	1,160
sulfidic - Titratable Sulfidic Acidity	% PYRITE S	0.02			-	-	-		-	-	-	-	-	-	< 0.020	-	-	-	-
NAG (pH 4.5)	kg H2SO4/t	0.1		<0.1	<0.1	<0.1	-	< 0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	-	< 0.1	< 0.1	-	-
NAG (pH 7.0)	kg H2SO4/t	0.1		<0.1	0.4	<0.1	-	0.8	<0.1	0.8	<0.1	0.7	-	0.7		<0.1	<0.1	-	-
Net Acid Production Potential	kg H2SO4/t	0.5	< 4.5-	-6.0	-4.9	-4.7	-	-4.6	-6.6	-3.5	-7.6	-3.8	-	-5.9	-	-7.5	-5.8	-	-
Inorganics																			1
Moisture (%)	%	1		<1.0	<1.0	-	-	<1.0	-	<1.0	<1.0	<1.0		-	21.2	18.2	19.2	9.0	5.3
pH (Initial)	pH Units	0.1			-	-	-	-		-	-	-	-	-	-	-	-	-	-
pH (Final)	pH Units	0.1			-	-	-	-		-		-	-	-	-	-	-	-	-
pH (aqueous extract)	pH Units	0.1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (after HCL)	pH Units	0.1			-	-	-	-		-		-	-	-	-	-	-	-	-
Sulfur as S	%			< 0.01	0.13	0.02	-	< 0.01	< 0.01	< 0.01	0.06	0.12	-	< 0.01	-	200	200	-	-
pH (Saturated Pasts)					İ														
pH (Saturated Paste)	pH Unit	0.1		8.0	7.6		-	6.8	-	7.2	7.4	7.1	-	-	5.7	7.3	7.4	8.0	6.8
ASS - pH					İ														_
pHKCl	pH Units	0.1		6.4	6.7	6.4	6.3	6.2	6.6	6.1	6.6	6.4	7.0	6.1	5.9	6.6	6.7	7.5	5.8
pH-OX	PH UNITS	0.1	0	7.4	6.9	7.2		6.9	7.6	6.7	7.1	6.6		6.8	5.9	7.4	7.2	-	6.4
ASS - Acidity Trail																			
Titratable Actual Acidity	mole H+/t	2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2
Titratable Actual Acidity (sulfur units)	%S	0.02		<0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.020	< 0.02	< 0.020	< 0.02	< 0.020
Titratable Peroxide Acidity	mole H+/t	2			-	-	-	-	-	-	-	-	-	-	9	-	<2	-	4
Titratable Peroxide Acidity (sulfur units)	%S	0.02					-	-				-	-		<0.020	-	< 0.020	-	< 0.020
Titratable Sulfidic Acidity	mole H+/t	2			-		-	-	-	-	-	-	-	-	9	-	<2	-	2
ASS - Sulfur Trail					İ				İ	Ì				İ		1	1		1
KCI Extractable Sulfur	%S	0.02				-	-	-	-	-	-	-	-		<0.020	-	< 0.020	-	< 0.020
Peroxide Sulfur	%S	0.02										-			< 0.020	-	< 0.020	-	< 0.020
Peroxide Oxidisable Sulfur (acidity units)	mole H+/t	10				-	-	-	-	-	-	-	-		<10	-	<10	-	<10
Peroxide Oxidisable Sulfur	%S	0.02				-	-	-	-	-	-	-	-		<0.020	-	< 0.020	-	< 0.020
ASS - Calcium Values					†		+		+	†		+		+		+	t		+
KCI Extractable Calcium	%Ca	0.02		-			-	-	-	-	-		-	-	<0.020	-	0.020	-	< 0.020
Calcium in Peroxide	%Ca	0.02					-	-	-		-	-	-		<0.020	-	0.025	-	< 0.020
Acid Reacted Calcium	%Ca	0.02		-											<0.020		< 0.020		<0.020
Acid Reacted Calcium (acidity units)	mole H+/t	10		-			-		-		-		-	-	<10	-	<10	-	<10
Acid Reacted Calcium (sulfur units)	%S	0.02											-		<0.020		<0.020		<0.020
	10.0	0.02			I	-	1	1	1	1	I	1	_		-0.020		-0.020		-0.020

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Appendix J Table 6 Summary of Soil Analytical Results for Acid Sulphate Parameters

			Location Code	NEL-EF-BH015	NEL-EF-BH017	NEL-EF-BH017	NEL-EF-BH017	NEL-EF-BH018	NEL-EF-BH018	NEL-EF-BH018	NEL-EF-BH019	NEL-EF-BH019	NEL-EF-BH019
			Fleid ID	NEL-EF-BH015_6.5m	NEL-EF-BH017_2m	NEL-EF-BH017_10m	NEL-EF-BH017_20m	NEL-EF-BH018_1.90m	NEL-EF-BH018_10m	NEL-EF-BH018_20m	NEL-EF-BH019_5m	NEL-EF-BH019_10m	NEL-EF-BH019_20m
			Date	29/06/2018	15/06/2018	14/08/2018	14/08/2018	25/06/2018	17/07/2018	17/07/2018	4/07/2018	13/07/2018	13/07/2018
				6.5	2	10	20	1.9	10	20	5	10	20
			Matrix Type	Soil	Soil	Rock	Rock	Soil	Rock	Rock	Soil	Rock	Rock
		į.	Lab Report Number	EM1813212	EM1813212	EM1813212	EM1813212	EM1813212	EM1813212	EM1813212	EM1813212	EM1813212	EM1813212
	Unit	EQL	EPA VIc 655.1										
ASS - ANC													
ANC as CaCO3	% CaCO3	0.1			-	0.9	0.9	-	0.9	1.0	-	0.9	0.7
ANC as H2SO4	kg H2SO4 eq/t	0.5		-	-	9.0	8.9		8.6	10.0	-	9.0	7.0
Fizz Rating	Fizz Unit	0			-	0	0	-	0	1	-	1	0
Acid Neutralising Capacity	% CaCO3	0.01				0.42	0.65	0.36		0.37		-	0.31
Acid Neutralising Capacity (acidity units)	mole H+/t	10			-	84	130	72		75	-	-	62
Acid Neutralising Capacity (sulfur units)	%S	0.01				0.13	0.21	0.11		0.12			0.10
NA .				i e									
Resistivity at 25°C	ohm cm	10		790	1,490	-	-	800	-		-	-	-
sulfidic - Titratable Sulfidic Acidity	% PYRITE S	0.02			-	-		-					-
NAG (pH 4.5)	kg H2SO4/t	0.1				2.1	0.6		< 0.1	0.6		<0.1	<0.1
NAG (pH 7.0)	kg H2SO4/t	0.1				4.8	2.6		<0.1	2.9		<0.1	0.2
Net Acid Production Potential	kg H2SO4/t	0.5	< 4.5-			-0.1	-3.1		-7.7	-3.6		-8.4	-6.4
Inorganics		0.0				-0.1	-0.1		-1.1	-0.0		-0.4	-0.4
Moisture (%)	9/	1		16.5	16.5	-		8.7					
pH (Initial)	pH Units	0.1		10.5	10.5	-	-	0.7	-	-			
pH (Final)	pH Units	0.1		- :	- :			- :	- :	- :	- :		- :
pH (aqueous extract)	pH Units	0.1			-	-	-		-		-	-	
pH (aqueous extract) pH (after HCL)	pH Units pH Units	0.1		-	-	-	-	-		-	-	-	-
Sulfur as S	pri Units	0.1		-	-	-			-			-	
	76				-	2,900	1,900	-	300	2,100	-	200	200
pH (Saturated Paste)													
pH (Saturated Paste)	pH Unit	0.1		7.1	6.9			7.3					
ASS - pH													
pHKCI	pH Units	0.1		6.4	5.9	6.9	7.0	6.7	6.4	6.8	6.4	6.4	6.6
pH-OX	PH UNITS	0.1	0	-	6.3	3.5	4.0	7.7	7.1	4.0	-	7.3	6.9
ASS - Acidity Trail													
Titratable Actual Acidity	mole H+/t	2		<2	2	<2	<2	<2	<2	<2	<2	<2	<2
Titratable Actual Acidity (sulfur units)	%S	0.02		<0.02	<0.020	<0.02	< 0.02	< 0.020	<0.02	<0.02	<0.02	< 0.02	<0.02
Titratable Peroxide Acidity	mole H+/t	2		-	7	-		<2	-	-	-	-	-
Titratable Peroxide Acidity (sulfur units)	%S	0.02			< 0.020	-		< 0.020	-	-	-	-	-
Titratable Sulfidic Acidity	mole H+/t	2		-	4	-	-	<2	-	-	-	-	-
ASS - Sulfur Trail													
KCI Extractable Sulfur	%S	0.02			<0.020	-	-	< 0.020		-	-	-	-
Peroxide Sulfur	%S	0.02			< 0.020	-		< 0.020					-
Peroxide Oxidisable Sulfur (acidity units)	mole H+/t	10			<10			<10			-		
Peroxide Oxidisable Sulfur	%S	0.02			< 0.020			< 0.020			-		-
ASS - Calcium Values				-	1	 		+			1	1	1
KCI Extractable Calcium	%Ca	0.02		-	0.037	-		< 0.020	-	-		-	-
Calcium in Peroxide	%Ca	0.02		- :	0.039	- :		0.021	- :	- :		-	
Acid Reacted Calcium	%Ca	0.02		- :	<0.020	-	-	0.021	-				- :
Acid Reacted Calcium (acidity units)	mole H+/t	10		- :	<0.020	-	-	11	-	-			- :
Acid Reacted Calcium (acidity units) Acid Reacted Calcium (sulfur units)	%S					-				-			
Acid Reacted Calcium (sulfur units)	760	0.02			<0.020	-	-	<0.020	-	-	-	-	-

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			Location Code	NEL-BH004	NEL-BH004	NEL-BH004	NEL-BH004	NEL-BH004	NEL-BH004	NEL-BH005	NEL-BH008	NEL-BH030	NEL-BH030	NEL-BH030	NEL-BH030
			Field ID	NEL-BH004 2.0-2.45m		NEL-BH004 15.0-15.45m	NEL-BH004 19.5-19.95m	NEL-BH004 19.5-19.95m	NEL-BH004 23.9-24.0m		NEL-BH008 10.0-10.1m	NEL-BH030 (17.02m)		NEL-BH030 (26.71m)	NEL-BH030 (43.25m)
			Date	NEL-BH004_2.0-2.45m 6/04/2018	6/04/2018	NEL-BH004_15.0-15.45m 6/04/2018	6/04/2018	23/04/2018	23/04/2018		6/04/2018	2/09/2017	2/09/2017	2/09/2017	9/09/2017
			Depth	2 - 2.45	9.05 - 9.15	15 - 15.45	19.5 - 19.95	19.5 - 19.95	23.9 - 24	4.11 - 4.56	10 - 10.1	17.02 - 17.12	18.68 - 18.78	26.71 - 26.81	43.25 - 43.35
				2 - 2.45 Rock	9.05 - 9.15 Soil	Rock	Rock	19.5 - 19.95 Rock	23.9 - 24 Rock		Rock	17.02 - 17.12 Rock	Rock	20.71 - 20.01 Rock	43.25 - 43.35 Rock
			Matrix Type Lab Report Number		EM1805796	EM1805796	EM1805796	EM1806836	EM1806836		EM1805796	EM1712819	EM1712819	EM1712819	EM1712819
100 M		_	Lab Report Number	EM1002/90	EM 1005/90	EW1002/90	EM1902/90	EM1000030	EM1000030	EM1005/90	EM 1005/90	EM1712019	EM1712019	EM1712019	EM1/12019
ASS - Magnesium Values					0.097								0.037		0.035
KCI Extractable Magnesium Magnesium in Peroxide	%Mg	0.02		-		-	0.037		-	0.087	-	0.039		0.033	
	%Mg	0.02		-	0.116 <0.020	-	0.037 <0.020	-	-	0.087	-	0.039 <0.020	0.046	0.045 <0.020	0.047 <0.020
Acid Reacted Magnesium	%Mg	0.02				-		-	-	<0.020	-		<0.020		
Acid Reacted Magnesium (acidity units)	mole H+/t	10			15		<10			<10		<10	<10	10	<10
Acid Reacted Magnesium (sulfur units)	%S	0.02		-	0.024		<0.020	-	-	<0.020	-	<0.020	<0.020	<0.020	< 0.020
ASS - Potential Acidity															
Chromium Reducible Sulfur	%S	0.005		0.011	-	0.024	-	0.011	-	-	0.007	-	-	-	-
Chromium Reducible Sulphur (acidity units)	mole H+/t	10		<10	-	15	-	<10	-	-	<10	-	-	-	-
ASS - Excess ANC															
Excess Acid Neutralising Capacity	%CaCO3	0.02		-	0.029	-	-	-	-	<0.020	-	-	-	-	0.162
Excess Acid Neutralising Capacity (acidity units)	mole H+/t	10		-	<10	-	-	-	-	<10	-	-	-	-	32
Excess Acid Neutralising Capacity (sulfur units)	%S	0.02			<0.020	-	-	-	-	< 0.020	-	-	-	-	0.052
ASS - Acid Base Accounting															
ANC Fineness Factor	-	0.5		1.5	1.5	1.5	1.5	1.5	-	1.5	1.5	1.5	1.5	1.5	1.5
Net Acidity (acidity units)	mole H+/t	10		<10	<10	15	<10	<10	-	<10	<10	<10	82	69	<10
Net Acidity (sulfur units)	%S	0.02	0.03	<0.02	<0.02	0.02	<0.02	<0.02	-	<0.02	< 0.02	< 0.02	0.13	0.11	<0.02
Liming Rate	kg CaCO3/t	1		<1	<1	1	<1	<1	-	<1	<1	<1	6	5	<1
Net Acidity excluding ANC (acidity units)	mole H+/t	10	18	<10	41	15	<10	<10		<10	<10	<10	82	69	13
Net Acidity excluding ANC (sulfur units)	%S	0.02		<0.02	0.06	0.02	<0.02	<0.02	-	<0.02	< 0.02	< 0.02	0.13	0.11	0.02
Liming Rate excluding ANC	kg CaCO3/t	1		<1	3	1	<1	<1	-	<1	<1	<1	6	5	<1
Major ions															
Calcium	mg/kg	10			<10	-	-	<10	<10	-	<10	-	-		-
Magnesium	mg/kg	10			<10	-	-	<10	10	-	<10	-	-	-	-
Potassium	mg/kg	10			<10	-	-	10	20	-	<10	-	-		-
Sodium	mg/kg	10			350	-	-	360	270	-	250	-	-	-	-
Chloride	mg/kg	10			380	-	-	450	200	-	310	-	-		-
Sulfate	mg/kg	10			120	-	-	60	260	-	20	-	-	-	-
тос															
Total Organic Carbon	%				0.8		-		-	-	-	-	-	-	-
Metals															
Arsenic (filtered)	mg/L	0.1			-	-	-		-	-	-	< 0.1	<0.1	<0.1	<0.1
Cadmium (filtered)	mg/L	0.05		-	-	-	-	-	-	-	-	< 0.05	< 0.05	<0.05	< 0.05
Chromium (III+VI) (filtered)	mg/L	0.1		-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1
Copper (filtered)	mg/L	0.1		-	-	-	-		-	-	-	<0.1	<0.1	<0.1	<0.1
Lead (filtered)	mg/L	0.1		-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1
Mercury (filtered)	mg/L	0.001		-	-	-	-	-	-	-	-	<0.0010	<0.0010	<0.0010	<0.0010
Nickel (filtered)	mg/L	0.1		-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1
Zinc (filtered)	mg/L	0.1		-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1
Biological															
Sulfate Reducing Bacteria Population Estimate	pac/g				<200	-	-	-	-	-	-	-	-	-	-
Sulfate Reducing Bacteria Aggressivity	-	1			1	-	-			-	-	-	-		-
SPOCAS															
Acid Neutralising Capacity	% CaCO3			0.40	-	-	-	0.53	-	-	-	-	-	-	-
Acid Neutralising Capacity (acidity units)	mole H+/t	10		80			-	106	-		-	-	-		-
Acid Neutralising Capacity (sulfur units)	%S	0.01		0.13	-		-	0.17	-	-	-				

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			Location Code	NEL-BH031	NEL-BH031	NEL-BH033	NEL-BH033	NEL-BH033	NEL-BH033	NEL-BH033	NEL-BH034	NEL-BH034	NEL-BH034	NEL-BH034	NEL-BH034
			Fleid ID	NEL-BH031_10.04-10.11m	NEL-BH031_20.03-20.13m	NEL-BH033 (12.4m)		NEL-BH033 (24.68m)	NEL-BH033 (26.33m)	NEL-BH033 (29.74m)	NEL-BH034 (7.9m)	NEL-BH034 (9.28m)	NEL-BH034 (12.05m)	NEL-BH034 (15.95m)	NEL-BH034 (22.9m)
			Date		6/04/2018	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	11/07/2017	12/07/2017
				6/04/2018											
			Depth	10.04 - 10.11	20.03 - 20.13	12.4 - 12.5	21.4 - 21.5	24.68 - 24.78	26.33 - 26.43	29.74 - 29.84	7.9 - 8	9.28 - 9.38	12.05 - 12.15	15.95 - 16.05	22.9 - 23
			Matrix Type Lab Report Number	Rock EM1805796	Rock EM1805796	Rock EM1712011	Rock EM1712011	Rock EM1712011	Rock EM1712011	Rock EM1712011	Rock EM1712011	Rock EM1712011	Rock EM1712011	Rock EM1712011	Rock EM1712011
ASS - Magnesium Values	1		Lab Report Number	EW1005/90	EM1002/90	EM1/12011	EM1712011	EM1712011	EM1/12011	EM1712011	EM1/12011	EM1712011	EM1/12011	EM1712011	EM1712011
KCI Extractable Magnesium	%Mg	0.02			-	< 0.020	0.032	0.041	0.057	0.055	0.074	0.047	0.024	0.022	0.026
Magnesium in Peroxide	%Mg	0.02				0.025	0.032	0.052	0.066	0.057	0.087	0.051	0.032	0.036	0.120
Acid Reacted Magnesium	%Mg	0.02				0.025	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.094
Acid Reacted Magnesium (acidity units)	mole H+/t	10				21	<10	<10	<10	<10	11	<10	<10	11	77
Acid Reacted Magnesium (sulfur units)	%S	0.02				0.034	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.124
ASS - Potential Acidity	700	0.02				0.034	~0.020	~0.020	NO.020	~0.020	~0.020	~0.020	~0.020	~0.020	0.124
Chromium Reducible Sulfur	%S	0.005		0.012	0.222										
Chromium Reducible Sulphur (acidity units)	mole H+/t	10		<10	139										
ASS - Excess ANC	IIIUle 11171	10		<10	139	-	-	-	-	-	-	-	-	-	-
	N 0-000	0.00				0.109		0.135	0.137		0.158	0.271	_		0.366
Excess Acid Neutralising Capacity Excess Acid Neutralising Capacity (acidity units)	%CaCO3 mole H+/t	0.02			-	0.109	-	0.135	27	-	31	54	-	-	73
Excess Acid Neutralising Capacity (acidity units) Excess Acid Neutralising Capacity (sulfur units)	%S	0.02			-	0.035	-	0.043	0.044	-	0.050	0.087	-	-	0.117
	70.3	0.02			-	0.035	-	0.043	0.044	-	0.050	0.067		-	0.117
ASS - Acid Base Accounting															
ANC Fineness Factor		0.5		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Net Acidity (acidity units)	mole H+/t	10		<10	88	<10	<10	<10	<10	<10	<10	<10	52	20	<10
Net Acidity (sulfur units)	%S	0.02	0.03	<0.02	0.14	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	<0.02	0.08	0.03	<0.02
Liming Rate	kg CaCO3/t	- 1		<1	7	<1	<1	<1	<1	<1	<1	<1	4	2	<1
Net Acidity excluding ANC (acidity units)	mole H+/t	10	18	<10	139	<10	<10	<10	<10	<10	<10	<10	52	20	167
Net Acidity excluding ANC (sulfur units)	%S	0.02		< 0.02	0.22	< 0.02	<0.02	< 0.02	<0.02	<0.02	<0.02	< 0.02	0.08	0.03	0.27
Liming Rate excluding ANC	kg CaCO3/t	1		<1	10	<1	<1	<1	<1	<1	<1	<1	4	2	12
Major lons															
Calcium	mg/kg	10		<10	<10	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	10		<10	<10	-	-	-	-	-	-	-	-	-	-
Potassium	mg/kg	10		<10	30	-	-	-	-	-	-	-	-	-	-
Sodium	mg/kg	10		180	170	-	-	-	-	-	-	-	-	-	-
Chloride	mg/kg	10		210	60		-	-	-	-	-	-		-	-
Sulfate	mg/kg	10		40	200		-	-	-	-	-	-		-	-
TOC															
Total Organic Carbon	%			-	-		-	-		-	-	-	-	-	-
Metals															1
Arsenic (filtered)	mg/L	0.1			-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1
Cadmium (filtered)	mg/L	0.05		-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<0.05	< 0.05	< 0.05	< 0.05
Chromium (III+VI) (filtered)	mg/L	0.1			-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Copper (filtered)	mg/L	0.1			-	< 0.1	<0.1	<0.1	<0.1	< 0.1	<0.1	< 0.1	< 0.1	<0.1	< 0.1
Lead (filtered)	mg/L	0.1			-	< 0.1	<0.1	<0.1	<0.1	< 0.1	<0.1	<0.1	0.1	<0.1	<0.1
Mercury (filtered)	mg/L	0.001		-	-	<0.0010	<0.0010	< 0.0010	< 0.0010	<0.0010	< 0.0010	< 0.0010	<0.0010	< 0.0010	< 0.0010
Nickel (filtered)	mg/L	0.1				< 0.1	<0.1	<0.1	<0.1	< 0.1	<0.1	< 0.1	< 0.1	<0.1	<0.1
Zinc (filtered)	mg/L	0.1			-	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.6	0.2
Biological															1
Sulfate Reducing Bacteria Population Estimate	pac/g										-				
Sulfate Reducing Bacteria Aggressivity	-	1				-	-	-	-	-	-		-	-	-
SPOCAS		+-							<u> </u>			+	1		+
Acid Neutralising Capacity	% CaCO3	_			0.38				l .			1 .	-		
Acid Neutralising Capacity Acid Neutralising Capacity (acidity units)	mole H+/t	10		-	75		-	-	· ·	-			 	-	-
Acid Neutralising Capacity (acidity units) Acid Neutralising Capacity (sulfur units)	%S	0.01		<u> </u>	0.12	-	-	-	-	-	-	-	-	-	-
room recommonly corporary (stilled dilles)	700	0.01			0.12										

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			Location Code	NEL-BH037	NEL-BH037	NEL-BH037	NEL-BH037	NEL-BH039	NEL-BH039	NEL-BH039	NEL-BH039	NEL-BH039	NEL-BH042	NEL-BH042	NEL-BH042	NEL-BH042	NEL-BH042
			Fleid ID	NEL-BH037_0.45-0.5m	NEL-BH037_5m	NEL-BH037_14.98-15.10m	NEL-BH037_25.0-25.08m	NEL-BH039_2.40m	NEL-BH039_5.9m	NEL-BH039_9.80m	NEL-BH039_14.5-14.91i	m NEL-BH039_19.0-19.45m	NEL-BH042 (15.5n	n) NEL-BH042 (31.46m)	NEL-BH042 (45.75m) NEL-BH042_14.97-15.08m	NEL-BH042_25.15-25.25m
			Date	23/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	23/04/2018	23/04/2018	16/09/2017	16/09/2017	16/09/2017	6/04/2018	6/04/2018
			Depth	0.45 - 0.5	5 - 5.1	14.98 - 15.1	25 - 25.08	2.4 - 2.5	5.9 - 6	9.8 - 9.9	14.5 - 14.91	19 - 19.45	15.5 - 15.6	31.46 - 31.56	45.75 - 45.85	14.97 - 15.08	25.15 - 25.25
			Matrix Type	Rock	Rock	Rock	Rock	Rock	Soil	Soil	Rock	Rock	Rock	Rock	Rock	Rock	Rock
			Lab Report Number		EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1806836	EM1806836	EM1712819	EM1712819	EM1712819	EM1805796	EM1805796
ASS - Magnesium Values																	
KCI Extractable Magnesium	%Mg	0.02			-			-	0.118				0.076	0.040	0.037		
Magnesium in Peroxide	%Mg	0.02			-			-	0.118				0.079	0.047	0.052		
Acid Reacted Magnesium	%Mg	0.02			-				<0.020				<0.020	< 0.020	<0.020		
Acid Reacted Magnesium (acidity units)	mole H+/t	10			-			-	<10			-	<10	<10	12		
Acid Reacted Magnesium (sulfur units)	%S	0.02							<0.020				<0.020	<0.020	<0.020		
ASS - Potential Acidity													-			1	1
Chromium Reducible Sulfur	%S	0.005		0.014	-	0.009	0.213	0.011		0.244		-	-				
Chromium Reducible Sulphur (acidity units)	mole H+/t	10		<10	-	<10	133	<10	-	152	-		-	-		-	-
ASS - Excess ANC		10		-10		-10	133	-10		102	<u> </u>	+		+		+	
Excess Acid Neutralising Capacity	%CaCO3	0.02		-	-		-	-	<0.020	-	-		0.119	-		-	-
Excess Acid Neutralising Capacity (acidity units)	mole H+/t	10			-				<10				24		-		
Excess Acid Neutralising Capacity (sulfur units)	%S	0.02		-	-			-	<0.020			-	0.038		-	-	
ASS - Acid Base Accounting		0.02					-		-0.020		<u> </u>	+	3.030	+		+	
ANC Fineness Factor		0.5		1.5	-	1.5	1.5	1.5	1.5	1.5			1.5	1.5	1.5		
Net Acidity (acidity units)	mole H+/t	10		<10	-	<10	133	<10	<10	158			<10	74	150	-	-
Net Acidity (solfur units)	%S	0.02	0.03	<0.02	-	<0.02	0.21	<0.02	<0.02	0.25			<0.02	0.12	0.24		
Liming Rate	kg CaCO3/t	1	0.03	<1	-	<1	10	<1	<1	12		-	<1	6	11		-
Net Acidity excluding ANC (acidity units)	mole H+/t	10	18	<10	-	<10	133	<10	<10	158			<10	74	150	-	-
Net Acidity excluding ANC (scidity units) Net Acidity excluding ANC (sulfur units)	%S	0.02	10	<0.02	-	<0.02	0.21	<0.02	<0.02	0.25			<0.02	0.12	0.24		-
Liming Rate excluding ANC	kg CaCO3/t	1		<0.02 <1	-	<0.02	10	<1	<0.02	12	-	-	<0.02	6	11	-	-
	ng ouccorr	<u> </u>		- 1		~1	10		- 1	12	-	-	- 1	,	- "	-	-
Major iona Calcium	mg/kg	10		-	<10	<10	30	-	<10	<10	<10	<10	-	-	-	<10	<10
Magnesium	mg/kg	10		-	<10	<10	70	-	<10	<10	<10	20	- :	-	-	<10	<10
Potassium	mg/kg	10			<10	<10	40	-	<10	<10	10	10	-	-	-	<10	70
Sodium	mg/kg	10		-	190	140	280	-	290	80	390	510	-	-		50	270
Chloride	mg/kg	10		- :	200	130	260	-	140	50	470	730	-			10	20
Sulfate	mg/kg	10			30	40	620		30	90	130	240	_			20	680
TOC	mgmg	10			30	40	020		30	- 50	130	240		_		20	000
Total Organic Carbon	9/	-			-				0.6				· .		-		
Metals	/0	_			-				0.0		-						-
	mg/L	0.1							-	-			<0.1	<0.1	<0.1		-
Arsenic (filtered) Cadmium (filtered)	mg/L	0.05			-		-	-			-	-	<0.05	<0.05	<0.05	-	
Chromium (III+VI) (filtered)		0.05											<0.05	<0.05	<0.05		
Copper (filtered)	mg/L mg/L	0.1		-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	-	-
Lead (filtered)	mg/L	0.1			-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	-	-
Mercury (filtered)	mg/L	0.001			-	-	-	-	-	-	-		<0.0010	<0.0010	<0.0010	-	-
Nickel (filtered)	mg/L	0.001		- :	-			-	-	-	-		<0.0010	<0.0010	<0.0010	-	-
Zinc (filtered)	mg/L	0.1			-						-		0.6	<0.1	<0.1	-	-
	mgr L	0.1					-				-		0.6	40.1	40.1	+	· ·
Biological Sulfate Reducing Bacteria Population Estimate	pac/g	+			 			1	-000	1	-		1	+	-	+	+
Sulfate Reducing Bacteria Population Estimate Sulfate Reducing Bacteria Aggressivity	pacry	1		-	-	-	-	-	<200	-		-	-	-	-	-	-
		1		-	-	-	-	-	1	-	-	-	-	-	-	-	-
SPOCAS	W 0-000	-		204		-		1.07			ļ	_	1		1	+	
Acid Neutralising Capacity	% CaCO3	40		2.94	-	-	-		-	-	-		-	-	-	-	-
Acid Neutralising Capacity (acidity units) Acid Neutralising Capacity (sulfur units)	mole H+/t %S	0.01		587 0.94	-	-	-	214 0.34	-	-	-	-	-	-	-	-	- :
Acid recitionally Capacity (Stiller titils)	70-3	0.01		0.94		-		0.34		-		-	1 -	-	-	-	

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					1			1	1						1				
			Location Code	NEL-BH043	NEL-BH043			NEL-BH043	NEL-BH057	NEL-BH057	NEL-BH057	NEL-BH057	NEL-BH057	NEL-BH058		NEL-BH058		NEL-BH059	NEL-BH059
			Fleid ID	NEL-BH043 (5.95m)						NEL-BH057 (15.43m)		NEL-BH057 (40.85m)		NEL-BH058 (18.22m)				NEL-BH059_10.04-10.18m	
		Į.	Date	12/07/2017	12/07/2017		12/07/2017	11/07/2017	2/09/2017	2/09/2017	2/09/2017	2/09/2017	2/09/2017	24/07/2017	24/07/2017	24/07/2017	6/04/2018	6/04/2018	6/04/2018
			Depth	5.95 - 6.05	11 - 11.1		18.4 - 18.5	34.6 - 34.7	5.64 - 5.74	15.43 - 15.53	21 - 21.1	40.85 - 40.95	48 - 48.1	18.22 - 18.32		22.85 - 22.95	5.5 - 5.6	10.04 - 10.18	20 - 20.21
			Matrix Type	Rock	Rock		Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock
			Lab Report Number	EM1712011	EM1712011	EM1712011	EM1712011	EM1712011	EM1712819	EM1712819	EM1712819	EM1712819	EM1712819	EM1712011	EM1712011	EM1712011	EM1805796	EM1805796	EM1805796
ASS - Magnesium Values																			
KCI Extractable Magnesium		0.02		0.046	0.061	0.032	0.023	0.047	0.051	0.033	0.021	0.034	0.029	0.041	0.039	0.033	0.067	-	-
Magnesium in Peroxide		0.02		0.058	0.070	0.044	0.034	0.073	0.052	0.041	0.030	0.068	0.032	0.043	0.044	0.046	0.079		-
Acid Reacted Magnesium	%Mg	0.02		< 0.020	<0.020	<0.020	< 0.020	0.026	< 0.020	< 0.020	< 0.020	0.034	< 0.020	< 0.020	<0.020	< 0.020	<0.020	-	
Acid Reacted Magnesium (acidity units)	mole H+/t	10		<10	<10	<10	<10	21	<10	<10	<10	28	<10	<10	<10	10	<10	-	
Acid Reacted Magnesium (sulfur units)	%S	0.02		< 0.020	< 0.020	<0.020	< 0.020	0.034	< 0.020	< 0.020	<0.020	0.044	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020		-
ASS - Potential Acidity																			
Chromium Reducible Sulfur	%S	0.005		-	-	-		-	-	-	-	-	-	-	-	-	-	0.017	0.066
Chromium Reducible Sulphur (acidity units)	mole H+/t	10		-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	41
ASS - Excess ANC															1		1		1
Excess Acid Neutralising Capacity	%CaCO3	0.02		0.090	0.272	-		-	-	0.122	-	-	-	-	-	-	0.039	-	-
Excess Acid Neutralising Capacity (acidity units)	mole H+/t	10		18	54	-	-	-	-	24	-	-	-	-	-	-	<10	-	-
Excess Acid Neutralising Capacity (sulfur units)	%S	0.02		0.029	0.087	-		-	-	0.039	-	-	-	-	-	-	< 0.020	-	-
ASS - Acid Base Accounting																			
ANC Fineness Factor	-	0.5		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Net Acidity (acidity units)	mole H+/t	10		<10	<10	92	116	158	<10	<10	100	38	44	<10	40	105	<10	<10	<10
Net Acidity (sulfur units)	%S	0.02	0.03	< 0.02	< 0.02	0.15	0.18	0.25	< 0.02	< 0.02	0.16	0.06	0.07	< 0.02	0.06	0.17	< 0.02	< 0.02	< 0.02
Liming Rate	kg CaCO3/t	1		<1	<1	7	9	12	<1	<1	7	3	3	<1	3	8	<1	<1	<1
Net Acidity excluding ANC (acidity units)	mole H+/t	10	18	<10	<10	92	116	158	<10	<10	100	38	44	<10	40	105	<10	- 11	41
Net Acidity excluding ANC (sulfur units)	%S	0.02		<0.02	<0.02	0.15	0.18	0.25	<0.02	<0.02	0.16	0.06	0.07	<0.02	0.06	0.17	< 0.02	<0.02	0.07
Liming Rate excluding ANC	kg CaCO3/t	1		<1	<1	7	9	12	<1	<1	7	3	3	<1	3	8	<1	<1	3
Major ions		_																	
Calcium	mg/kg	10				-		-	-	-	-	-	-	-	-	-	<10	<10	<10
Magnesium		10															<10	<10	<10
Potassium		10				-			-	-	-	-	-	-	-	-	<10	<10	<10
Sodium		10															590	170	220
Chloride		10				-		-	-	-	-	-	-	-		-	690	190	200
Sulfate		10			-	-		-	-	-	-			-		-	80	30	130
тос		_																	
Total Organic Carbon	%								-								-		<u> </u>
Metals	-	_			+										 				
Arsenic (filtered)	mg/L	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.1	<0.1	-		
Cadmium (filtered)		0.05		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-		
Chromium (III+VI) (filtered)		0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.00	<0.00			
Copper (filtered)		0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	
Lead (filtered)		0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-		
Mercury (filtered)		0.001		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	-		
Nickel (filtered)		0.1		<0.0010	<0.0010	<0.1	<0.0010	<0.1	<0.10	<0.1	0.2	0.4	<0.1	<0.0010	<0.0010	<0.1	-		
Zinc (filtered)		0.1		0.2	0.3	0.2	0.2	0.2	0.2	<0.1	0.2	0.4	0.1	0.2	0.2	0.2	1		
Biological	-			0.2	0.0	3.2		3.2	5.2	0.1	3.1	0.1	0.1	U.E.	0.2	J.2	+ -		
Sulfate Reducing Bacteria Population Estimate	pac/g				-		-	-	-					-	-		-		
Sulfate Reducing Bacteria Population Estimate Sulfate Reducing Bacteria Aggressivity		1			+ -	1			-	-		+		-	+		+ -	-	
SPOCAS	+	-			<u> </u>	-	-	-	<u> </u>		-	<u> </u>		-	 	-		-	
Acid Neutralising Capacity	% CaCO3				+								-		+		1	0.72	0.57
Acid Neutralising Capacity (acidity units)		10		- :	-	-	-	-	-	-	-	-	-	-	-	-	+ -	143	113
Acid Neutralising Capacity (acidity units) Acid Neutralising Capacity (sulfur units)		0.01			-		-	-	-	+	-	-	-		-	-	+ -	0.23	0.18
root recurrency deposity (solid) dilits)	700	0.01				-								-				0.23	U.16

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		Loc	ation Code	NEL-BH067	NEL-BH067	NEL-BH068	NEL-BH068	NEL-BH068	NEL-BH070	NEL-BH070	NEL-BH073	NEL-BH073	NEL-BH074	NEL-BH074	NEL-BH074	NEL-BH076	NEL-BH076
			Id ID	NEL-BH067 12.06-12.21m	NEL-BH067 25.0-25.13m	NEL-BH068 8.20-8.30m		NEL-BH068_19.97-20.05m									
		Date		6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	23/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018
		Dep		12.06 - 12.21	25 - 25.13	8.2 - 8.3	14.96 - 15.06	19.97 - 20.05	2 - 2.1	5 - 5.1	12 - 12.75	24.9 - 25.06	20 - 20.14	30 - 30.1	41.89 - 42	19.88 - 20.03	30 - 30.13
				Rock	25 - 25.13 Rock	0.2 - 0.3 Soil	Rock	19.97 - 20.05 Rock	Soil	Rock	Rock	24.9 - 25.06 Rock	20 - 20.14 Rock	30 - 30.1 Rock	41.69 - 42 Rock	Rock	30 - 30.13 Rock
			trix Type Report Number		EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1806836	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796
		Lab	Report Number	EM1805/96	EM1805/96	EM1805/96	EM1805/96	EM1805/96	EM1805796	EM1805796	EM1806836	EM1805/96	EM1805/96	EM1805/96	EM1805/96	EM1805/96	EM1805796
ASS - Magnesium Values																	
KCI Extractable Magnesium	%Mg	0.02		-			-	-	0.038	0.044	-	0.020	-	0.040	-	-	
Magnesium in Peroxide	%Mg	0.02		-	-			-	0.074	0.049	-	0.034	-	0.044		-	-
Acid Reacted Magnesium	%Mg	0.02				-	-	-	0.036	< 0.020	-	<0.020	-	<0.020	-	-	
Acid Reacted Magnesium (acidity units)	mole H+/t	10		-			-	-	30	<10	-	12	-	<10	-	-	
Acid Reacted Magnesium (sulfur units)	%S	0.02		-		-	-	-	0.048	< 0.020	-	< 0.020	-	< 0.020	-	-	-
ASS - Potential Acidity																	
Chromium Reducible Sulfur	%S	0.005		0.007	0.118	0.014	-	-	-	-	-	0.182	0.080	0.072	0.138	-	0.075
Chromium Reducible Sulphur (acidity units)	mole H+/t	10		<10	74	<10	-	-	-	-	-	113	50	45	86	-	47
ASS - Excess ANC																	
Excess Acid Neutralising Capacity	%CaCO3	0.02				-	-	-	0.369	-	-	-	-	-	-	-	-
Excess Acid Neutralising Capacity (acidity units)	mole H+/t	10			-	-	-	-	74	-	-	-	-	-	-	-	-
Excess Acid Neutralising Capacity (sulfur units)	%S	0.02				-	-	-	0.118	-	-	-	-	-	-	-	
ASS - Acid Base Accounting																	
ANC Fineness Factor	-	0.5		1.5	1.5	1.5	-	-	1.5	1.5	-	1.5	1.5	1.5	1.5	-	1.5
Net Acidity (acidity units)	mole H+/t	10		10	74	15		-	<10	<10		92	<10	31	<10	-	<10
Net Acidity (sulfur units)	%S	0.02	0.03	<0.02	0.12	0.02		-	<0.02	< 0.02		0.15	< 0.02	0.05	<0.02	-	< 0.02
Liming Rate	kg CaCO3/t	1		<1	6	1	-	-	<1	<1	-	7	<1	2	<1	-	<1
Net Acidity excluding ANC (acidity units)	mole H+/t	10	18	10	74	15	-	-	<10	<10	-	113	50	45	86	-	47
Net Acidity excluding ANC (sulfur units)	%S	0.02		<0.02	0.12	0.02	-	-	< 0.02	< 0.02	-	0.18	0.08	0.07	0.14	-	0.08
Liming Rate excluding ANC	kg CaCO3/t	1		<1	6	1	-	-	<1	<1	-	8	4	3	6	-	4
Major Iona																	
Calcium	mg/kg	10		<10	40	<10	<10	20	-	<10	<10	<10	<10	<10	<10	60	<10
Magnesium	mg/kg	10		<10	260	<10	<10	20		20	<10	<10	<10	<10	<10	90	<10
Potassium	mg/kg	10		<10	50	<10	20	110	-	10	<10	20	10	<10	<10	40	10
Sodium	mg/kg	10		20	50	<10	20	20		120	130	80	130	130	120	210	490
Chloride	mg/kg	10		30	30	<10	<10	<10		30	180	20	70	80	50	110	220
Sulfate	mg/kg	10		<10	1,210	20	100	240	-	90	<10	160	160	130	150	810	530
тос																	
Total Organic Carbon	%					< 0.5				-						-	
Metals																	
Arsenic (filtered)	mg/L	0.1								-		-		-		-	
Cadmium (filtered)	mg/L	0.05				-		-	-	-			-	-	-	-	
Chromium (III+VI) (filtered)	mg/L	0.1						-		-				-		-	
Copper (filtered)	mg/L	0.1						-	-					-	-	-	
Lead (filtered)	mg/L	0.1						-		-				-		-	
Mercury (filtered)	mg/L	0.001						-		-				-		-	
Nickel (filtered)	mg/L	0.1				-		-	-	-	-	-	-	-	-		-
Zinc (filtered)	mg/L	0.1		-					-		+ :				1	+	
Biological					-	t	 	+	+	+	+	t	+	+	+		t
Sulfate Reducing Bacteria Population Estimate	pac/g					<200			-	-				-	-		-
Sulfate Reducing Bacteria Aggressivity	-	1			- :	1			-	-		-		-	-	-	
BPOCAS	_	-		<u> </u>		-	+	+			+	<u> </u>	+		+	_	· ·
Acid Neutralising Capacity	% CaCO3					1	l .					0.89	0.66	0.77	0.68		5.27
Acid Neutralising Capacity (acidity units)	mole H+/t	10			- :					1		178	132	154	136		1.050
Acid Neutralising Capacity (acidity units) Acid Neutralising Capacity (sulfur units)	%S	0.01		· ·	- :				-			0.28	0.21	0.25	0.22		1,050
rico recording cupacity (sulfil tillts)	700	0.01			· ·		· -	-			-	0.28	0.21	0.25	0.22		1.09

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			Location Code	NEL-BH076	NEL-BH083	NEL-BH083	NEL-BH084	NEL-BH084	NEL-BH084	NEL-BH084	NEL-BH085	NEL-BH085	NEL-BH087	NEL-BH087
			Fleid ID	NEL-BH076_39.79-40.02m	NEL-BH083_14.84-15.0m	NEL-BH083_25.0-25.22m	NEL-BH084_15.3-15.40m	NEL-BH084_20.0-20.08m	NEL-BH084_29.63-29.79m	NEL-BH084_37.95-38.05m	NEL-BH085_5.0-5.12	m NEL-BH085_15.0-15.1n	n NEL-BH087_5.60-5.79m	NEL-BH087_14.90-15.10
		- I	Date	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018
		1	Depth	39.79 - 40.02	14.84 - 15	25 - 25.22	15.3 - 15.4	20 - 20.08	29.63 - 29.79	37.95 - 38.05	5 - 5.12	15 - 15.1	5.6 - 5.79	14.9 - 15.1
		- I	Matrix Type	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock
			Lab Report Number	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796
ASS - Magnesium Values											i e			
KCI Extractable Magnesium	%Mg	0.02				-	-	-	<0.020		-		-	-
Magnesium in Peroxide	%Mg	0.02				-	-	-	0.020		-		-	-
Acid Reacted Magnesium	%Mg	0.02		-		-		-	0.020	-	-			
Acid Reacted Magnesium (acidity units)	mole H+/t	10				-	-	-	16		-		-	-
Acid Reacted Magnesium (sulfur units)	%S	0.02		-		-		-	0.026	-	-			
ASS - Potential Acidity														
Chromium Reducible Sulfur	%S	0.005		-	0.182	0.222	0.011	-	0.114	0.364	-		0.008	0.007
Chromium Reducible Sulphur (acidity units)	mole H+/t	10			113	138	<10	-	71	227	-	-	<10	<10
ASS - Excess ANC									İ	İ				
Excess Acid Neutralising Capacity	%CaCO3	0.02		-				-		-	-	-		
Excess Acid Neutralising Capacity (acidity units)	mole H+/t	10					-				-		-	
Excess Acid Neutralising Capacity (sulfur units)	%S	0.02		-				-		-	-	-	-	-
ASS - Acid Base Accounting						İ		1	İ	İ			1	1
ANC Fineness Factor	-	0.5			1.5	1.5	1.5	-	1.5	1.5	-	-	1.5	1.5
Net Acidity (acidity units)	mole H+/t	10		-	38	67	<10	-	72	230	-		<10	<10
Net Acidity (sulfur units)	%S	0.02	0.03		0.06	0.11	< 0.02	-	0.11	0.37	-	-	< 0.02	<0.02
Liming Rate	kg CaCO3/t	1		-	3	5	<1	-	5	17			<1	<1
Net Acidity excluding ANC (acidity units)	mole H+/t	10	18		113	138	<10	-	72	230	-	-	<10	<10
Net Acidity excluding ANC (sulfur units)	%S	0.02		-	0.18	0.22	< 0.02	-	0.11	0.37			< 0.02	< 0.02
Liming Rate excluding ANC	kg CaCO3/t	1		-	8	10	<1	-	5	17	-		<1	<1
Major Iona														
Calcium	mg/kg	10		<10	<10	<10	-	20	<10	30	<10	<10	<10	<10
Magnesium	mg/kg	10		<10	<10	<10	-	50	20	100	<10	<10	<10	<10
Potassium	mg/kg	10		20	20	<10		50	40	80	<10	30	<10	<10
Sodium	mg/kg	10		180	110	60		190	110	170	160	180	250	160
Chloride	mg/kg	10		40	40	20		100	80	50	110	80	300	160
Sulfate	mg/kg	10		320	140	70	-	530	260	850	70	260	30	30
TOC		\neg												
Total Organic Carbon	%			-		-		-	-	-	-		-	-
Metals														
Arsenic (filtered)	mg/L	0.1				-	-	-	-	-	-	-	-	-
Cadmium (filtered)		0.05			-	-	-	-	-	-	-	-	-	-
Chromium (III+VI) (filtered)	mg/L	0.1				-	-	-	-	-	-	-	-	-
Copper (filtered)	mg/L	0.1			-	-	-	-	-	-	-	-	-	-
Lead (filtered)	mg/L	0.1			-	-	-	-	-	-	-	-	-	-
Mercury (filtered)	mg/L	0.001			-	-	-	-	-	-	-	-	-	-
Nickel (filtered)	mg/L	0.1			-	-	-	-	-	-	-	-	-	-
Zinc (filtered)	mg/L	0.1		-		-	-		-	-	-	-	-	-
Biological		\neg												
Sulfate Reducing Bacteria Population Estimate	pac/g					-	-	-		-	-	-	-	
Sulfate Reducing Bacteria Aggressivity	-	1				-	-	-	-	-	-	-	-	-
BPOCAS						Ì			Ì	Ì			T T	İ
Acid Neutralising Capacity	% CaCO3	- 1			0.57	0.54	-	-	-	-	-	-	0.28	0.64
Acid Neutralising Capacity (acidity units)	mole H+/t	10		-	113	107	-	-	-	-		-	56	128

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			Location Code	NEL-BH089	NEL-BH089	NEL-BH092	NEL-BH092	NEL-BH093	NEL-BH095	NEL-BH095	NEL-BH099	NEL-BH099
			Field ID	NEL-BH089 NEL-BH089 8.70-8.90m	NEL-BH089 NEL-BH089 15.0-15.7m	NEL-BH092 NEL-BH092 5.0-5.10m	NEL-BH092 NEL-BH092 9.85-10.0m	NEL-BH093 NEL-BH093 5.05-5.17m	NEL-BH095 NEL-BH095 5.45-5.55m	NEL-BH095 NEL-BH095 9.97-10.11m	NEL-BH099 NEL-BH099 10.0-10.10m	NEL-BH099 NEL-BH099 20.04-20.18m
			Pield ID Date									
				6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018
			Depth	8.7 - 8.9	15 - 15.7	5 - 5.1	9.85 - 10	5.05 - 5.17	5.45 - 5.55	9.97 - 10.11	10 - 10.1	20.04 - 20.18
			Matrix Type	Rock	Rock	Rock	Rock	Rock	Soil	Rock	Rock	Rock
			Lab Report Number	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796
ASS - Magnesium Values												
KCI Extractable Magnesium	%Mg	0.02			-	-			-		-	-
Magnesium in Peroxide	%Mg	0.02				-	-	-	-		-	-
Acid Reacted Magnesium	%Mg	0.02			-	-	-	-	-	-	-	
Acid Reacted Magnesium (acidity units)	mole H+/t	10				-	-	-	-		-	-
Acid Reacted Magnesium (sulfur units)	%S	0.02				-	-	-	-		-	-
ASS - Potential Acidity												
Chromium Reducible Sulfur	%S	0.005		0.006	0.005	0.007	0.006	0.006	0.006	0.007	0.006	0.122
Chromium Reducible Sulphur (acidity units)	mole H+/t	10		<10	<10	<10	<10	<10	<10	<10	<10	76
ASS - Excess ANC												
Excess Acid Neutralising Capacity	%CaCO3	0.02			-	-	-	-	-	-	-	
Excess Acid Neutralising Capacity (acidity units)	mole H+/t	10			-	-			-		-	-
Excess Acid Neutralising Capacity (sulfur units)	%S	0.02			-							
ASS - Acid Base Accounting											1	1
ANC Fineness Factor	-	0.5		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Net Acidity (acidity units)	mole H+/t	10		<10	<10	<10	<10	<10	<10	<10	<10	76
Net Acidity (sulfur units)	%S	0.02	0.03	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.12
Liming Rate	kg CaCO3/t	1		<1	<1	<1	<1	<1	<1	<1	<1	6
Net Acidity excluding ANC (acidity units)	mole H+/t	10	18	<10	<10	<10	<10	<10	<10	<10	<10	76
Net Acidity excluding ANC (sulfur units)	%S	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.12
Liming Rate excluding ANC	kg CaCO3/t	1		<1	<1	<1	<1	<1	<1	<1	<1	6
Major Ions		+									+	+
Calcium	mg/kg	10		<10	<10	-	<10	<10	<10		<10	<10
Magnesium	mg/kg	10		<10	<10		<10	<10	<10		<10	<10
Potassium	mg/kg	10		<10	<10		<10	<10	<10		<10	30
Sodium	mg/kg	10		320	320		390	240	140		110	110
Chloride	mg/kg	10		460	460		520	320	100		120	20
Sulfate	mg/kg	10		20	30		20	10	100		<10	230
тос												
Total Organic Carbon	%	1										
Metals		_										
Arsenic (filtered)	mg/L	0.1										
Cadmium (filtered)	mg/L	0.05			-				-	-	-	-
Chromium (III+VI) (filtered)	mg/L	0.03							-			-
Copper (filtered)	mg/L	0.1			-							-
Lead (filtered)	mg/L	0.1			-		-	-	-		-	
Mercury (filtered)	mg/L	0.001			-			-	-		-	-
Nickel (filtered)	mg/L	0.001			-							-
Zinc (filtered)	mg/L	0.1		- :	-	-		-			-	-
Biological	-ingra-	0.1					-	-	-		+	+
Sulfate Reducing Bacteria Population Estimate	pac/g	1					-	-	-			
Sulfate Reducing Bacteria Population Estimate Sulfate Reducing Bacteria Aggressivity	pacy	-			-	-	-	-	-	-	-	-
	-	1			-	-	-	-	-	-		-
SPOCAS	N 0-000	-		0.04		0.07	0.04					
Acid Neutralising Capacity	% CaCO3			0.24	-	0.67	0.31	-	-	-		-
Acid Neutralising Capacity (acidity units)	mole H+/t	10		49	-	134	62	-	-	-	-	-
Acid Neutralising Capacity (sulfur units)	%S	0.01		0.08	-	0.21	0.10	-	-	-	-	-

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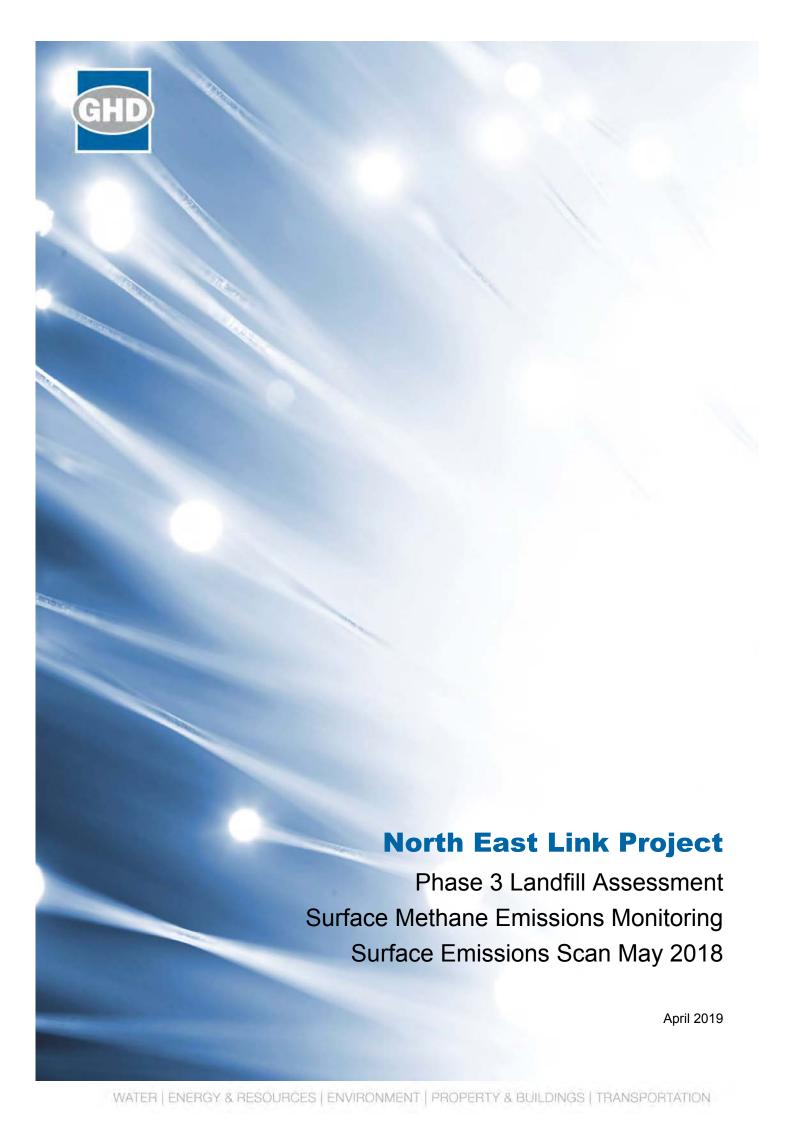
			ation Code	NEL-BH100	NEL-BH100	NEL-BH108	NEL-BH110	NEL-BH114	NEL-BH122	NEL-BH124	NEL-BH124	NEL-BH124	NEL-BH137	NEL-BH137	NEL-BH150	NEL-BH101	NEL-BH101	NEL-EF-BH009	NEL-EF-BH014
		Fleid	d ID	NFI -BH100 5 10-5 30m	NEL-BH100 17.34-17.44m	NEL-BH108 5 7-5 79m	NEL-BH110 5 0-5 20m											m NEL-EF-BH009 2.9	
		Date		6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	6/04/2018	23/04/2018	29/06/2018	29/06/2018	4/07/2018	29/06/2018
		Dept		5.1 - 5.3	17.34 - 17.44	5.7 - 5.79	5 - 5.2	5.22 - 5.3	4.56 - 4.64	25 - 25.12	35.03 - 35.12	45 - 45.1	5 - 5.1	14.87 - 15	5.35 - 5.45	1.9	7.5	2.9	1.5
				Rock	Rock	Rock	Soil	Rock	Rock	Rock	Rock	Rock	Soil	Rock	Rock	Soil	Soil	Soil	Soil
			Report Number		EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1805796	EM1806836	EM1813212	EM1813212	EM1813212	EM1813212
ASS - Magneelum Values		LOUID	resport realison	EM 10007 00	Emiloosiso	LINTOODISC	LIII 1000150	LW 1000750	LIN 1000100	LINTOODTOO	EW 1000700	LIII 10001 50	LIII 10007 50	LIII 10007 00	EM 1000000	LINTOTOLIL	LIIITOTOLTE	LW1010E1E	LIIITOTOLTE
KCI Extractable Magnesium	%Mg	0.02									_		-	+	<0.020		0.067	_	0.045
Magnesium in Peroxide	%Ma	0.02													<0.020		0.081		0.051
Acid Reacted Magnesium	%Mg	0.02			1		-		1	-				1 :	<0.020	-	<0.020	-	<0.020
Acid Reacted Magnesium (acidity units)	mole H+/t	10													<10		11		<10
Acid Reacted Magnesium (sulfur units)	9/8	0.02			1		-		+ • • • • • • • • • • • • • • • • • • •	_	-		-	+	<0.020	-	<0.020		<0.020
ASS - Potential Acidity	700	0.02			-	-	-		-	-	· ·	· ·		-	~0.020		~0.020		~0.020
Chromium Reducible Sulfur	%S	0.005		0.006	0.131	0.013	0.007	<0.005	0.005	0.011	0.064	0.112	0.010	0.010	-	< 0.005	<0.005	<0.005	-
Chromium Reducible Sulphur (acidity units)	mole H+/t	10		<10	82	<10	<10	<10	<10	<10	40	70	<10	<10	-	<10	<10	<10	
ASS - Excess ANC	more iii ii	10		~10	02	~10	~10	~10	<10	~10	40	70	~10	~10	-	~10	~10	~10	
Excess Acid Neutralising Capacity	%CaCO3	0.02				-	+						-	+	-	-	0.096	-	-
Excess Acid Neutralising Capacity Excess Acid Neutralising Capacity (acidity units)	mole H+/t	10					+		 	1				1	+ -		19		
Excess Acid Neutralising Capacity (acidity units)	%S	0.02			-				-	-	-		-		-	-	0.031	-	-
ASS - Acid Base Accounting	700	0.02			· ·	-	-			-		-		-	-	-	0.031		+
ANC Fineness Factor	_	0.5		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Net Acidity (acidity units)	mole H+/t	10		<10	<10	<10	<10	<10	<10	<10	<10	70	<10	<10	<10	<10	<10	<10	<10
Net Acidity (sulfur units)	%S	0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.11	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Liming Rate	kg CaCO3/t	0.02	0.03	<1	<1	<1	<1	<1	<1	<1	<1	5	<1	<1	<1	<1	<1	<1	<1
Net Acidity excluding ANC (acidity units)	mole H+/t	10	18	<10	82	<10	<10	<10	<10	<10	40	70	<10	<10	<10	<10	<10	<10	<10
Net Acidity excluding ANC (acidity drifts)	%S	0.02	10	<0.02	0.13	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	0.11	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Liming Rate excluding ANC	kg CaCO3/t	1		<1	6	<1	<0.02	<0.02	<1	<0.02	3	0.11	<1	<0.02	<0.02	<0.02	<0.02	<0.02	<1
Major Ions	ing outdoort					` '	- 1				3	,	- 1	-		- 1	- 1	- 1	
Calcium	mg/kg	10		<10	<10			<10		<10	<10	<10		-	<10	<10	<10	<10	<10
Magnesium	mg/kg	10		<10	<10			<10		<10	<10	<10	-	-	<10	<10	<10	<10	<10
Potassium	mg/kg	10		<10	20		-	<10		<10	10	20		-	<10	<10	10	<10	<10
Sodium	mg/kg	10		150	260			260	-	170	120	140	-	-	20	600	600	190	170
Chloride	mg/kg	10		150	160		-	350		180	90	60		1	20	730	720	80	170
Sulfate	mg/kg	10		50	260			10		40	90	220	-		20	190	160	130	40
TOC		10			200			10		40		22.0			20	100	100	100	
Total Organic Carbon	%													 					
Metala	-						1								+				
Arsenic (filtered)	mg/L	0.1													-				
Cadmium (filtered)	mg/L	0.05			1		1	1	1	1 - 1	1	1		+	1	1	1	T .	-
Chromium (III+VI) (filtered)	mg/L	0.00					1			1	-			1	-	1	-		-
Copper (filtered)	mg/L	0.1			-			-	-		- :	- :	-	-	-	-	-	- :	-
Lead (filtered)	mg/L	0.1			-	-	-	-	-	-	-	-	-		-	-	-	-	-
Mercury (filtered)		0.001			-	-	-		1	1	-	-		1	-		-	-	-
Nickel (filtered)	mg/L	0.001				1			-					1 - 1		-		-	-
Zinc (filtered)	mg/L	0.1			-		- :		-	1	-	-		1	-		-	-	-
Biological		3.1		-	+		+	 	+	+	1	 	 	+	+		+	+	+
Sulfate Reducing Bacteria Population Estimate	pac/g							-					-		-		-	-	-
Sulfate Reducing Bacteria Apgressivity	pung	1			-							-	-			-	-		-
POCAS	_	-			-			<u> </u>		-	<u> </u>		-	 	+		+		+
Acid Neutralising Capacity	% CaCO3				3.29		+		0.51		1.24		0.22				-	-	+
	mole H+/t	40			657		-	-	102	-	247		44	-	-		+ -		-
Acid Neutralising Capacity (acidity units) Acid Neutralising Capacity (sulfur units)	mole H+/t %S	0.01		-	1.05	-	-	-	0.16	-	0.40	-	0.07	-	-	-	-	-	-

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			Location Code	NEL-EF-BH015	NEL-EF-BH017	NEL-EF-BH017	NEL-EF-BH017	NEL-EF-BH018	NEL-EF-BH018	NEL-EF-BH018	NEL-EF-BH019	NEL-EF-BH019	NEL-EF-BH019	
				NEL-EF-BH015 6.5m				NEL-EF-BH018 1.90m	NEL-EF-BH018_10m 17/07/2018	NEL-EF-BH018_20m 17/07/2018		NEL-EF-BH019 10m	NEL-EF-BH019_20	
				29/06/2018				25/06/2018				13/07/2018	13/07/2018 20 Rock	
			Depth	6.5	2	10	20	1.9	10	20	5	10		
			Matrix Type	Soil	Soil	Rock	Rock	Soil	Rock	Rock	Soil	Rock		
			Lab Report Number		EM1813212	EM1813212	EM1813212	EM1813212	EM1813212	EM1813212	EM1813212	EM1813212	EM1813212	
ASS - Magneelum Values		_	Eab Report Rumber	LINTOTOLIE	LIIITOTOLTE	LINTOTOLIZ	LWITOTOLIL	LIIITOTOLIL	LINTOTOLIL	LWITOTOLIL	LIIITOTOLTE	LINTOTOLIE	LWITOTOLIZ	
KCI Extractable Magnesium	%Mg	0.02			0.128			0.055						
Magnesium in Peroxide	%Mg	0.02			0.132	-		0.072		-		-		
Acid Reacted Magnesium	%Mg	0.02			<0.020			<0.072			- :	-	-	
Acid Reacted Magnesium (acidity units)	mole H+/t	10			<10			14				-	-	
Acid Reacted Magnesium (acidity units) Acid Reacted Magnesium (sulfur units)	%S	0.02		-	<0.020	-		0.023	-	-	- :		-	
ASS - Potential Acidity	700	0.02			~0.020			0.023			-	-		
Chromium Reducible Sulfur	%S	0.005		<0.005	-	0.211	0.164	<0.005	<0.005	0.179	<0.005	<0.005	<0.005	
Chromium Reducible Sulphur (acidity units)	mole H+/t	10				132	102							
	mole n+/t	10		<10		132	102	<10	<10	112	<10	<10	<10	
ASS - Excess ANC		1												
Excess Acid Neutralising Capacity	%CaCO3	0.02		-	-	-	-	0.145		-	-	-	-	
Excess Acid Neutralising Capacity (acidity units)	mole H+/t	10		-	-	-	-	29	-	-	-	-	-	
Excess Acid Neutralising Capacity (sulfur units)	%S	0.02			-	-	-	0.046		-	-	-	-	
ASS - Acid Base Accounting														
ANC Fineness Factor	-	0.5		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Net Acidity (acidity units)	mole H+/t	10		<10	<10	76	16	<10	<10	62	<10	<10	<10	
Net Acidity (sulfur units)	%S	0.02	0.03	<0.02	<0.02	0.12	0.02	<0.02	<0.02	0.10	<0.02	< 0.02	< 0.02	
Liming Rate	kg CaCO3/t	- 1		<1	<1	6	1	<1	<1	5	<1	<1	<1	
Net Acidity excluding ANC (acidity units)	mole H+/t	10	18	<10	<10	132	102	<10	<10	112	<10	<10	<10	
Net Acidity excluding ANC (sulfur units)	%S	0.02		<0.02	< 0.02	0.21	0.16	<0.02	<0.02	0.18	< 0.02	< 0.02	<0.02	
Liming Rate excluding ANC	kg CaCO3/t	1		<1	<1	10	8	<1	<1	8	<1	<1	<1	
Major lons														
Calcium	mg/kg	10		<10	<10	-	-	<10	-	-	-	-	-	
Magnesium	mg/kg	10		<10	<10	-	-	<10	-	-	-	-	-	
Potassium	mg/kg	10		<10	<10		-	<10			-	-	-	
Sodium	mg/kg	10		350	110	-	-	130	-	-	-	-	-	
Chloride	mg/kg	10		410	40	-	-	490	-		-	-	-	
Sulfate	mg/kg	10		60	20	-	-	20	-		-	-	-	
TOC														
Total Organic Carbon	%					-	-			-	-	-	-	
Metals		1												
Arsenic (filtered)	mg/L	0.1			-		-					-	-	
Cadmium (filtered)	mg/L	0.05			-	-	-	-	-	-	-	-	-	
Chromium (III+VI) (filtered)	mg/L	0.1			-					-	-	-	-	
Copper (filtered)	mg/L	0.1			-	-	-		-	-		-		
Lead (filtered)	mg/L	0.1			-	-	-	-	-	-		-	-	
Mercury (filtered)	mg/L	0.001			-	-	-	-	-	-		-	-	
Nickel (filtered)	mg/L	0.1					-				-			
Zinc (filtered)	mg/L	0.1			-		-	-	-		-	-	-	
Biological		+ ***			t	t		+		t	 	+	1	
Sulfate Reducing Bacteria Population Estimate	pac/g	+										-	-	
Sulfate Reducing Bacteria Aggressivity	-	1										1		
DOOAA		+-			-	+	-			+	-	1 -		

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Appendix K – Landfill gas report



This publication is prepared to inform the public about the North East Link. This publication may be of assistance to you but the North East Link Project (a division of the Major Transport Infrastructure Authority) and its employees, contractors or consultants (including the issuer of this report) do not guarantee that the publication is without any defect, error or omission of any kind or is appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication.

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Annexure A – Figures

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1. Introduction

The existing conditions assessment conducted as part of the Environmental Effects Statement (EES) Technical report O – Contamination and soil identified an increased potential for soil and groundwater contamination at a number of sites within the North East Link project boundary. A number of landfills and localised fill sites were identified within or partly within the project boundary, and it was recommended that further assessment was undertaken at six locations to characterise the potential risk to human health and the environment associated with constructing North East Link.

Due to access restrictions, two of the six sites were unable to be monitored. The four sites where landfill gas monitoring was undertaken are:

- M80 Ring Road/Greensborough Bypass
- AK Lines Reserve, Watsonia
- Borlase Reserve, Yallambie
- Bulleen Oval in Bulleen Park, Bulleen.

The landfill gas monitoring consisted of surface methane emissions monitoring and monitoring of underground services for methane.

1.1 Purpose

This report presents the details, results and analysis of the landfill gas (methane) monitoring undertaken in May 2018. Landfill gas monitoring was undertaken to assist in characterising risk and to inform the EES.

1.2 Scope and method

The landfill gas monitoring at the four sites consisted of:

- · Surface methane emissions monitoring across the ground surface areas
- Monitoring of all identified underground services on the sites for methane.

Landfill gas monitoring was conducted in general accordance with Environment Protection Authority (EPA) Publication 1684: *Landfill gas fugitive emissions monitoring guidelines* (February 2018). All monitoring was conducted by an appropriately qualified and experienced person.

A Laser One low concentration methane detector was used for the monitoring works. The calibration certificate for this instrument is presented in Annexure B.

A portable anemometer was used to measure wind speed during monitoring and an ArcGIS phone application with GPS tracking was used to assist in walking transects across the sites and to log methane emission locations.

1.1 Limitations

The opinions, conclusions and any recommendations in this report are based on site conditions encountered and information reviewed at the date of preparation of this document. Site conditions may change after the date of this document. GHD does not accept responsibility arising from, or in connection with, any change to the site conditions or to account for events or changes occurring subsequent to the date that this document was prepared.

2. Landfill conditions

2.1 Landfill locations

2.1.1 M80 Ring Road/Greensborough Bypass

Waste material was found at this location during test pitting undertaken as part of geotechnical investigations for the M80 Ring Road upgrade project (VicRoads 2015). The waste material encountered consisted of putrescible waste, glass bottles, plastics, car body parts, concrete and ash. A strong ammonia odour was also noted in the geotechnical logs. Historical aerial photographs of the M80 Ring Road/Greensborough Bypass site indicated a potential quarry that was backfilled with waste material. The period in which the quarry was backfilled with waste is unknown.

The M80 Ring Road/Greensborough Bypass site is shown in Figure 4 in Annexure A, with the boundary of the monitoring area shown in red.

2.1.2 AK Lines Reserve

Banyule City Council provided a register of potentially contaminated sites that listed AK Lines Reserve as a former landfill site. Historical aerials of the AK Lines Reserve indicate that filling commenced in the late 1950s and ceased in the mid-1960s. It is unlikely the landfill was lined or suitably capped, as this was not standard practice at the time of its operation.

AK Lines Reserve is shown in Figure 5 in Annexure A, with the boundary of the monitoring area shown in red.

2.1.3 Borlase Reserve

VicRoads Report No. 91-01-15-01 (VicRoads, 2010) indicated that a possible former landfill is located at Borlase Reserve, Yallambie. Historical aerial photographs indicated that earthworks occurred at the reserve, but it is unclear whether the works were associated with deposition of waste. Drilling at the reserve undertaken as part of the geotechnical investigation for North East Link indicated minor fill consisting of construction and demolition waste, which confirms that filling most likely occurred in the area.

Borlase Reserve is shown in Figure 6 in Annexure A, with the boundary of the monitoring area shown in red.

2.1.4 Bulleen Oval

The geotechnical investigations for North East Link encountered uncontrolled fill material (including some asbestos sheeting) in boreholes surrounding Bulleen Oval in Bulleen Park. Historical aerial photographs confirm the presence of a former landfill in the area.

Bulleen Park is shown in Figure 7 in Annexure A, with the boundary of the monitoring area shown in red.

2.2 Atmospheric pressure

Atmospheric pressure can influence landfill gas monitoring results. Rapid alterations in atmospheric pressure (increasing or decreasing) over short time periods immediately before or during monitoring can decrease or increase landfill gas emissions from a landfill site. When the atmospheric pressure is very low, methane fluxes can be higher than normal, and vice versa. Ideally, methane emissions surveys should be conducted when atmospheric pressure is neither extreme but preferable when atmospheric pressure is falling, to represent the worst-case scenario. Meteorological effects can be self-cancelling because low atmospheric pressure is usually accompanied by rainfall, which reduces the permeability of the soil and can reduce surface emissions. According to EPA Victoria Publication 1684: Landfill gas fugitive emissions monitoring guidelines, methane surface emissions monitoring should not be conducted if atmospheric pressure at the site is rising sharply or is very much higher than the average for the geographical area of the landfill.

With reference to the UK Environment Agency Publication LFTGN 03, *Guidance on the management of landfill gas*, it is considered that falling atmospheric pressure over a three-hour period is critical to the rate of gas migration/venting. Based on UK monitoring records, a drop in atmospheric pressure of 5 mbar over three hours represents a typical 'worst-case' scenario (although it is noted this data is specific to climate conditions at locations in the UK).

Guidance from EPA NSW in its 2012 publication *Guidelines for the Assessment and Management of Sites Impacted by Hazardous Ground Gases* also emphasises that landfill gas monitoring should include measurements taken during falling atmospheric pressure conditions, stating:

'For Australian conditions, a worst-case meteorological scenario can be estimated from the fifth percentile three-hour pressure decrease rate for the site, based on a two-year data set for the nearest Bureau of Meteorology site with continuous pressure recording.'

Based upon GHD's experience at other sites around Victoria, a reasonably significant pressure drop is considered to be in the order of 4 mbar/hPa over three hours.

The sites were monitored on 9 and 10 May 2018. GHD endeavours to undertake landfill gas monitoring following a drop in atmospheric pressure. Atmospheric pressure data (as measured at Viewbank Bureau of Meteorology (BoM) weather station (the closest weather station to all the sites) is shown in Figure 1 and Figure 2. Atmospheric pressure was relatively stable with only a slight increased from 1019 mbar to 1020.5 mbar in the three hours leading up to the start of monitoring on 9 May 2018. The atmospheric pressure decreased throughout the monitoring that day, from 1020.5 mbar to 1015 mbar. On 10 May 2018, atmospheric pressure was relatively stable in the three hours prior to monitoring, and decreasing for the duration of the monitoring event, from 1011 mbar to 1009 mbar.

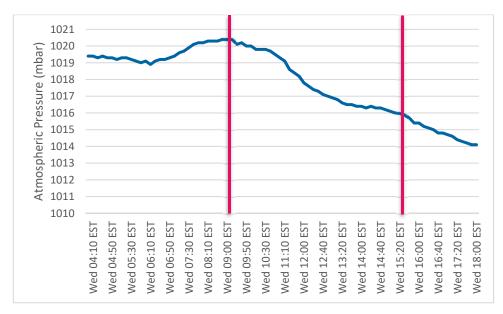


Figure 1 Atmospheric pressure data (m bar) 9 May 2018

Note: Monitoring period shown in red

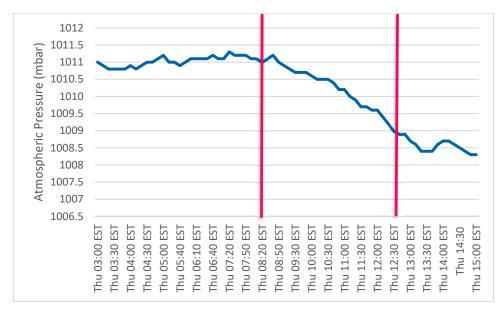


Figure 2 Atmospheric pressure data (m bar) 10 May 2018

Note: Monitoring period shown in red

2.3 Rainfall

Rainfall can also play a significant role in landfill gas emissions, as a saturated surface will restrict the surface emission of methane and so theoretically increase the subsurface migration of methane.

The weather station recorded no rainfall in the 24 hours prior to, and during, the monitoring on Wednesday 9 May 2018. A total of 13.8 millimetres of rainfall was recorded overnight prior to monitoring at AK Lines Reserve on Thursday 10 May 2018. This rainfall may have reduced the permeability of the soil and so reduce surface emissions. The ground was observed to be moist but no water pooling was observed at the reserve.

2.4 Wind speed

According to EPA Victoria Publication 1684: Landfill gas fugitive emissions monitoring guidelines, high wind speeds (greater than 10 km/hr) can cause landfill surface gas emissions to be diluted, making landfill gas emissions appear falsely low.

Wind speed measurements were taken with a handheld anemometer, held five centimetres from the surface approximately every 15 minutes while undertaking surface scanning.

Winds were settled during monitoring on 9 and 10 May 2018, with all surface readings below 10 km/hr. At times of strong gusts, monitoring was paused.

Overall wind is not expected to have impacted on surface methane emissions monitoring results.

2.5 Conclusions

During the monitoring, atmospheric pressure was falling prior to and during monitoring. There was some rainfall recorded prior to monitoring one site—AK Lines Reserve—which may result in underestimating the risk of surface methane emissions at the reserve during normal site conditions. Wind during the monitoring days were not expected to have affected monitoring results.

3. Underground services monitoring

3.1 Monitoring network

Monitoring of all identified underground services on the sites was undertaken on 9 and 10 May 2018. All identified and monitored underground services are shown in Figure 4 to Figure 7 in Annexure A.

3.2 Assessment levels

EPA Victoria Publication 788.3: Siting, design, operation and rehabilitation of landfills (the Landfill Best Practice Environmental Management – Landfill BPEM) provides landfill gas action levels for licensed landfills to meet compliance. EPA Victoria Publication 1490.1: Closed landfill guidelines states that closed landfills which present unacceptable landfill gas risks may also be required to meet these Landfill BPEM landfill gas action levels through post closure pollution abatement notices (PC PANs). As the sites monitored during this work are not licensed landfills or under an above referred PC PAN, the action levels do not apply, but they can provide a guide to the landfill gas levels that may increase risk to people or the environment.

The Landfill BPEM action level for subsurface services is 10,000 ppm methane (or 1% v/v methane).

3.3 Results and discussion

Underground services were monitored inside the service where there was access to insert the instrument, and otherwise around the edges of the service lid.

No elevated results (≥10000 ppm) were recorded during underground service monitoring at the M80 Ring Road/Greensborough Bypass, AK Lines Reserve and Borlase Reserve sites (refer to Figure 4, Figure 5 and Figure 6 in Annexure A). It is noted that one sewer pit at Borlase Reserve recorded a methane reading of 486 ppm, which is above ambient level, but this is well below the Landfill BPEM action level for subsurface services and is likely attributed to sources other than landfill gas, such as the contents of the sewer.

One underground electricity service pit monitored at Bulleen Oval recorded an elevated result of 16,000 ppm or 1.6 % v/v), which is above the Landfill BPEM action level. The location of this elevated reading is shown in Figure 7 in Annexure A. Nearby underground services monitored did not record methane concentrations above ambient levels. As discussed in Section 3.2, the Landfill BPEM action levels are not applicable to this site, but as part of the site occupational health and safety all site staff and contractors should be made aware of the potential risks associated with landfill gas when entering/working around underground service pits and other confined spaces. The lower explosive limit is 5% v/v methane. While still below this, higher concentrations of methane may migrate to the service pit after a significant drop in atmospheric pressure.

4. Surface methane emissions monitoring

4.1 Monitoring network

Surface methane emissions monitoring was undertaken across the four sites in the areas shown in Figure 4 to Figure 7 in Annexure A.

4.2 Assessment levels

The Landfill BPEM provides landfill gas action levels for licensed landfills to meet compliance. EPA Victoria Publication 1490.1: *Closed landfill guidelines* states that closed landfills that present unacceptable landfill gas risks may also be required to meet these Landfill BPEM landfill gas action levels through post closure pollution abatement notices (PC PANs). As the sites monitored during this work are not licensed landfills or under an above referred PC PAN, the action levels do not apply, but they can provide a guide to the landfill gas levels that may increase risk to people or the environment.

The Landfill BPEM action level for surface emissions over a final cap is 100 ppm methane, measured five centimetres from the ground surface.

EPA Victoria will accept an average of the surface emissions data to be used for reporting compliance where the maximum concentration below is not exceeded:

Final cap – a mean of 100 ppm with no individual result exceeding 200 ppm.

4.3 Results and discussion

Surface methane emissions monitoring was undertaken from 9 to 10 May 2018. The environmental conditions at the time of monitoring are addressed in Section 2.

Methane concentrations were monitored continuously along 25-metre transects at a height of 50 millimetres above ground level. EPA Victoria Publication 1684: Landfill gas fugitive emissions monitoring guidelines recommends transects at 50-metre intervals for final caps, but to be conservative, transects were spaced 25 metres apart. The methane levels were continuously monitored and concentrations above ambient levels (> 3 ppm) were recorded. A point was plotted every 30 seconds along the transects walked. The accuracy of the plotted points are limited to the accuracy of the GPS (± 5 metres) and the software.

No elevated results (≥100 ppm) were recorded during surface emissions scanning at the M80 Ring Road/Greensborough Bypass, Borlase Reserve and Bulleen Oval sites (refer to Figure 4, Figure 6 and Figure 7 in Annexure A).

Only one location at AK Lines Reserve recorded a reading above 100 ppm, with 160 ppm methane detected to the north-east of the centre of the sports oval. The location of this elevated reading is shown in Figure 5 in Annexure A. No obvious cracks or protrusions in the ground were identified where the elevated reading was recorded that may have created a preferential pathway for the methane from the ground to the surface (refer to Figure 3 below). All other readings at AK Lines Reserve were ambient (~2 ppm methane).



Figure 3 Ground surface at AK Lines Reserve where methane reading of 160 ppm was recorded

Atmospheric conditions that are expected to cause a 'worst-case scenario' in methane emissions is a drop in atmospheric pressure of 4 mbar in the three hours prior to monitoring. Atmospheric pressure was decreasing during the monitoring of AK Lines Reserve when this concentration was recorded, but the decrease in atmospheric pressure was less than 4 mbar. The rainfall recorded prior to monitoring and wet ground conditions observed during monitoring may have resulted in lower surface methane emissions than would otherwise be recorded during dry ground conditions, as the saturated ground reduces its permeability and thus the movement of methane through the ground surface.

While above the 100 ppm Landfill BPEM action level, the reading is not considered an exceedance. As noted in EPA Victoria Publication 1684, EPA Victoria will accept an average of the surface emissions data to be used for reporting compliance where the maximum concentration (100 ppm with no individual result exceeding 200 ppm for final caps) is not exceeded.

The Landfill BPEM notes that landfill gas can cause potential risks following cessation of filling for at least 30 years. The concentration recorded suggests that landfilled waste is still decomposing, with methane being generated. However, as it has been over 40 years since the cessation of waste deposition at AK Lines Reserve, it is expected that peak landfill gas generation has already occurred (usually peaks immediately following the closure of a landfill). The methane concentration detected does not indicate a significant risk to users of the reserve. Being out in the open, any methane emissions would be expected to rapidly dissipate and the 160 ppm reading is well below the lower explosive limit for methane (50,000 ppm).

5. Quality assurance and quality control

Landfill gas monitoring conducted by GHD is subject to a number of quality control measures and is undertaken as per EPA Victoria Publication 1684: *Landfill gas fugitive emissions monitoring guidelines* (2018).

Monitoring was undertaken by a suitably qualified and experienced staff member. A Laser One (serial # 16709.16) and anemometer were used, with the instruments being calibrated prior to use (calibration certificate is attached in Annexure B). The calibration was undertaken by the instrument manufacturer, Huberg.

The landfill gas monitoring was conducted in accordance with a number of quality control considerations, including:

- All monitoring was conducted by a suitably qualified and trained GHD engineer
- Appropriate instruments were used for each monitoring task, consistent with the requirements of EPA Victoria Publication 1684
- Monitoring staff were trained in the use of the particular instruments used
- Operation manuals for the instruments were reviewed and available on-site in case of instrument malfunction
- Field staff had read and were familiar with the landfill gas section of the Landfill BPEM
- Instruments were calibrated by the instrument suppliers prior to the start of monitoring
- Instruments were used in accordance with manufacturers' specifications
- Appropriate landfill gas monitoring techniques and methods were used for each monitoring task
- Ongoing assessment of results during monitoring was conducted to identify areas of risk and target additional monitoring.

As identified in Section 2, meteorological conditions are generally considered to have been appropriate for the landfill gas monitoring undertaken and so the results obtained are considered representative of prevailing conditions at the time of monitoring.

6. Conclusions and recommendations

6.1 Conclusions

The following conclusions are made in relation to the May 2018 landfill gas monitoring.

6.1.1 Site conditions

Atmospheric pressure was stable/falling prior to and during both days of monitoring. Wind speeds were below 10 km/hr, and thus are not expected to have diluted gases at the ground level. There was some rainfall prior to monitoring of AK Lines Reserve on 10 May 2018, which may have resulted in under-estimating the risk of surface methane emissions at the site during normal site conditions, but no areas of pooled water were observed during monitoring.

The site conditions are taken into consideration in the analysis and discussion of the results of this monitoring.

6.1.2 Underground services monitoring

No elevated results (≥10,000 ppm) were recorded during underground service monitoring at the M80 Ring Road/Greensborough Bypass, AK Lines Reserve and Borlase Reserve sites.

One underground electricity service pit monitored at Bulleen Oval recorded an elevated result of 16,000 ppm (or 1.6 % v/v). This result is below the lower explosive limit of methane (5% v/v).

6.1.3 Surface methane emission monitoring

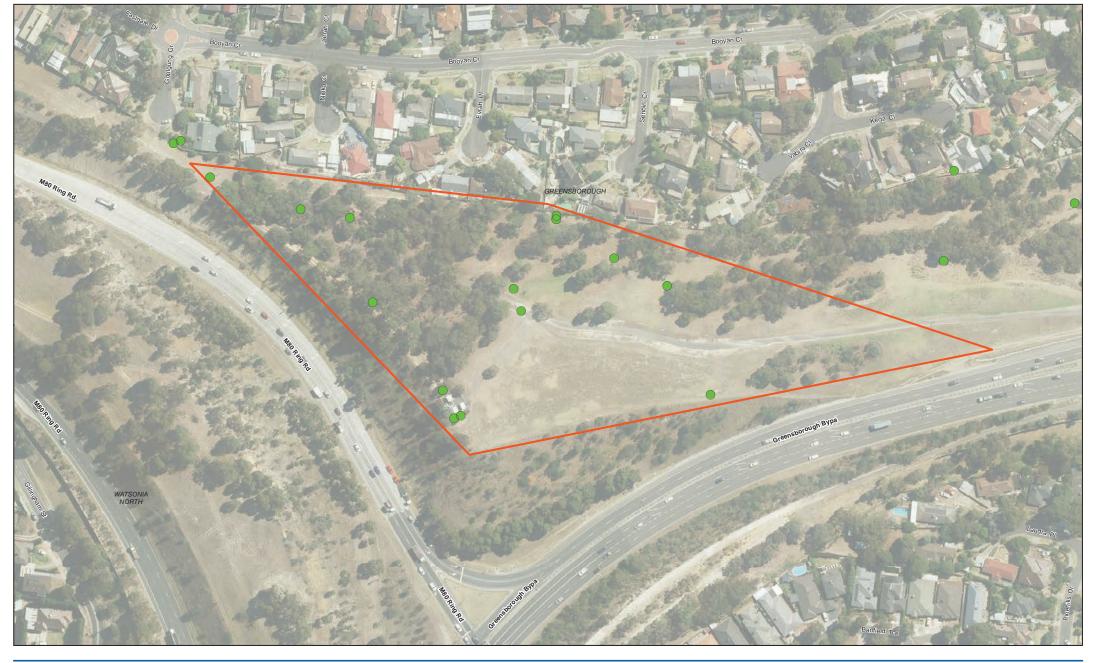
No elevated results (≥100 ppm) were recorded during surface emissions scanning at the M80 Ring Road/Greensborough Bypass, Borlase Reserve and Bulleen Oval.

One location at AK Lines Reserve recorded a reading of 160 ppm methane to the north east of the centre of the sports oval. This is not expected to pose any significant risk to users of the reserve.

Annexures

 $\textbf{GHD} \mid \text{Report for North East Link Project} - \text{Environment Effects Statement Contamination Technical Report, 31/35006}$

Annexure A – Figures







Monitored subsurface service

Above Ambient methane concentration Above ambient methane concentration Monitored Area

NOTE: Surface emissions monitored in 25 m transects across the site. Surface methane emissions recorded at ambient concentrations unless otherwise noted on the figure.



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Surface methane gas emissions scan M80/Greensborough Hwy Bypass, Nth Watsonia Figure 4







Monitored Area

Surface emissions monitoring

 Above ambient methane concentration Above ambient methane concentration NOTE: Surface emissions monitored in 25 m transects across the site. Surface methane emissions recorded at ambient concentrations unless otherwise noted on the figure.



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27 Feb 2019

Surface methane gas emissions scan AK Line Reserve, Watsonia.







---- Drain or channel

Above Ambient methane concentration Above ambient methane concentration

Monitored Area

Stream

NOTE: Surface emissions monitored in 25 m transects across the site. Surface methane emissions recorded at ambient concentrations unless otherwise noted on the figure.

Job Ref: 20180523A



North East Link Project Environment Effects Statement (EES) Revision Date

Job Number | 31-35006 27 Feb 2019

Surface methane gas emissions scan Borlase St Reserve, Yallambie.







Above Ambient methane concentration Above ambient methane concentration

Monitored Area

Watercourse

NOTE: Surface emissions monitored in 25 m transects across the site. Surface methane emissions recorded at ambient concentrations unless otherwise noted on the figure.

Job Ref: 20180523A



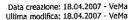
North East Link Project Environment Effects Statement (EES) Job Number | 31-35006 Revision Date

27 Feb 2019

Surface methane gas emissions scan Bulleen Park Football Oval, Bulleen

Annexure B – Calibration certificates







Calibration certificate number 41584

Instrument LaserOne01

Serial number Huberg

16709.16

Calibration procedure description

UNI IEC ISO 14253-1: 2013 states that the measurement uncertainty has to be less than the maximum admissible error limits; calibration of the instrument is performed by measuring the response of the detection sensor compared to known concentrations. When the detected uncertainty is less than the maximum admisibble error limits of the measuring equipment, the calibration is complant.

Check of the instrument between 0 ÷ 10000 ppm CH4

Full	Gas	Response1	Response2	Response3	Average	Max	Max
scale	concentration	(ppm)	(ppm)	(ppm)	response	error	error
(ppm)	(ppm)				(ppm)	(ppm)	(% F.s.)
1000	0	0	0	0	0,00	0,00	0,00
1000	100	100	99	100	99,67	1,00	0,10
1000	1000	997	998	998	997,67	3,00	0,30

Uncertainty	0,30	%
Max % error	0,30	% Fs

Check of the instrument between 0 ÷ 100 % vol CH4

Full scale (%vol)	Gas concentration (%vol)	Response1 (%vol)	Response2 (%vol)	Response3 (%vol)	Average response (%vol)	Max error (%vol)	Max error (% F.s.)
10	0	0	0	0	0,00	0,00	0,00
10	2,2	2,1	2,2	2,2	2,17	0,10	1,00
100	100	100	100	100	100,00	0,00	0,00

Uncertainty	1,00	%
Max % error	1,00	% Fs

Ambient condition by calibration

Temperature

: 21 °C

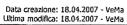
Pressure

: 1013 mBar

U.R.

: 42 %







Calibration gas cylinders1

Concentration	Serial Number	Date of expire	GAS
Air	010212	26/01/2022	AIR
99,9 PPM	084549	26/03/2018	CH4
996 PPM	126837	26/01/2018	CH4
2,19 % VOL	011632	08/09/2019	CH4
100 % VOL	003655	12/11/2018	CH4

Calibration results

: POSITIVE

Next scheduled calibration

: 30/10/2018

Calibration date

: 30/10/2017

Calibration supervisor

: Randi Mirco

Paroli Phur

 $^{^{1}}$ The certificate of the gases could be downloaded at the following address http://www.huberg.com/certificati



Date of creation: 18.04.2007 - VeMa Last modification: 18.04.2007 - VeMa



Report number

38220

Instrument LaserOne01

Serial no. Huberg

16709.16

With this document we certify that the following work has been carried out:

Calibration	
System check	
Repair result	POSITIVE
Date of next control	30/10/2018
Repair date	30/10/2017
Responsible for repair	Randi Mirco
Signature	Roshi Wins

GHD

180 Lonsdale Street Melbourne Vic 3000

T: 03 8687 8000 F: 03 8687 8111 E: melmail@ghd.com

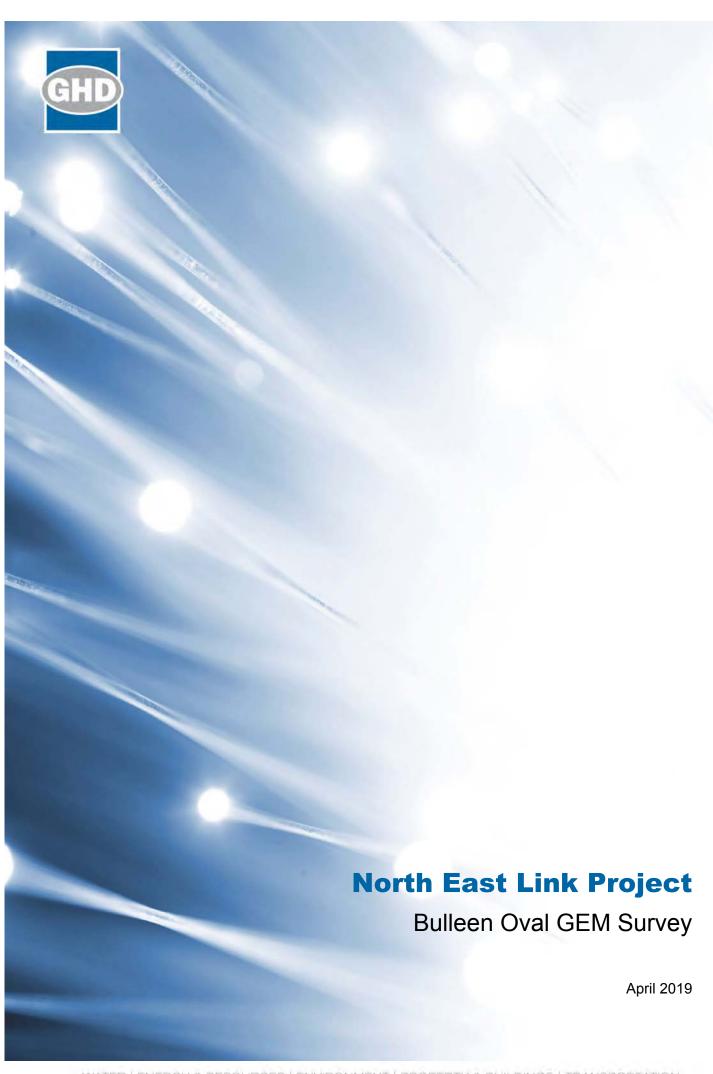
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Appendix L – GEM report



This publication is prepared to inform the public about the North East Link. This publication may be of assistance to you but the North East Link Project (a division of the Major Transport Infrastructure Authority) and its employees, contractors or consultants (including the issuer of this report) do not guarantee that the publication is without any defect, error or omission of any kind or is appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication.

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Annexures

Annexure A – GEM survey images

1. Introduction

1.1 Background

Boreholes drilled by GHD at Bulleen Oval have identified waste fill overlain by a thin layer of topsoil at the site. This waste appears to be commercial in nature. As a result, a frequency domain electromagnetic survey using a Geophex GEM2 terrain conductivity meter was undertaken to investigate the lateral extent of the fill. This document details the findings from the GEM survey.

1.2 Study area

Bulleen Oval is located in Bulleen Park on Bulleen Road, Bulleen, as shown in Figure 1. The survey extent included all non-paved areas within the boundary of the site. A site walk around was conducted prior to commencing the survey. A metal fence around the perimeter of the oval, multiple metal waste water grates and lighting poles were noted. These objects are conductive and ferromagnetic in nature and will result in anomalous readings from the survey equipment when in close proximity.

1.3 Limitations

The opinions, conclusions and any recommendations in this report are based on site conditions encountered and information reviewed at the date of preparation of this document. Site conditions may change after the date of this document. GHD does not accept responsibility arising from, or in connection with, any change to the site conditions or to account for events or changes occurring subsequent to the date that this document was prepared.

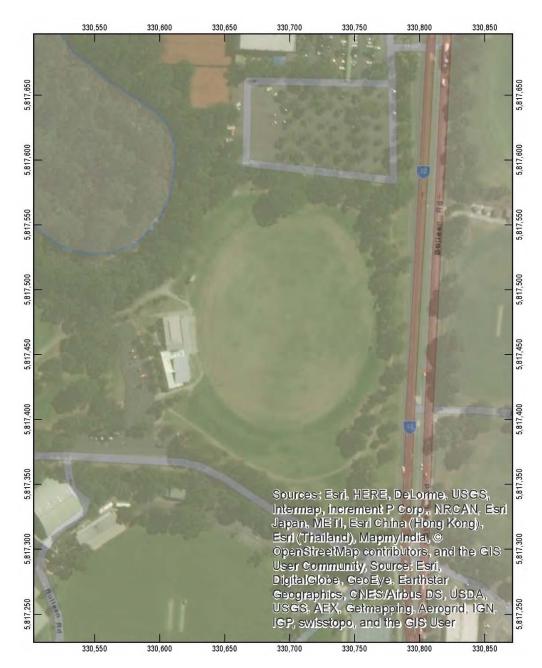


Figure 1 The Bulleen Oval site

2. Geophysical survey

2.1 Methodology

The GEM2 electromagnetic (EM) method was chosen for rapid geophysical reconnaissance surveying of the apparent electrical conductivity over the site. It was anticipated the GEM2 method would be effective at identifying anomalies for follow up investigations using higher resolution geophysical methods.

On the basis of typical electromagnetic properties of landfill, the anticipated electromagnetic anomalies were anticipated to be either:

- High conductivity features associated with high clay content, refuse containing waste fill, high moisture, and/or water filled cavities, or
- Low conductivity features associated with air filled cavities, fresh limestone or dry sand.

The GEM2 is a multi-frequency broadband electromagnetic sensor that operates in a frequency range of 330 Hz to 40 kHz and can measure up to 15 frequencies simultaneously. Figure 2 shows the survey instrument in use.

The GEM2 measures the apparent conductivity as well as the magnetic susceptibility at each location. The apparent conductivity measures changes in the electrical conductivity of the soil, which is governed primarily by the clay content, water saturation, and the concentration of dissolved ions in solution.

The GEM2 instrument takes a series of measurements in rapid succession (up to 10 times per second) along a survey line, measuring the ground response at several operator determined transmitter frequencies which is called frequency sounding.



Figure 2 The GEM 2 frequency domain electromagnetic survey instrument

2.2 Data acquisition

The geophysical survey was conducted between 23 April 2018 and 24 April 2018. The GEM2 was set to operate at five sounding frequencies; 34,824, 14,625, 9825, 4225 and 1875 Hertz (Hz). The GEM2 was couple with a RTK DGPS system recording locations in GDA94 Zone 55 at 1-second intervals. Data was acquired with the GEM2 along parallel lines spaced at approximately five metres. A total of 33,492 data points were collected at an elevation of one metre. A map of the collected data is shown in Figure 1 in Appendix A.

2.3 EM data quality

The quality of the GEM2 data can be affected by electromagnetic interference. To account for this, the background electromagnetic noise was monitored with the instrument stationary prior to and during each section of the survey.

The presence of metal fencing, buildings and buried metal objects resulted in localised high anomalies on the GEM2 data.

2.4 Processing

Field data was processed, analysed and presented using Surfer13, Geophex and ArcGis software packages.

The GEM 2 electrical conductivity response maps were generated by gridding the output data in the Surfer software package. The Minimum Curvature gridding routine was used to interpolate between data points. After consideration of all possible data products, the electrical conductivity ($E_{\rm C}$) maps for each frequency and the $Q_{\rm Sum}$ apparent (qualitative) conductivity map were used to present the EM results in this report.

The EC maps shown in Figures 2 to 6 in Appendix A contain the summed values of the Quadrature (Q) and Inphase (I) components of the target frequency in mS/m.

The Q_{Sum} data shown in Figure 7 in Appendix A are more sensitive to variations in ground conductivity due to geology and moisture content than other analysis methods. This style of map was selected for presentation as it will best represent the anomalies potentially caused by the fill. The values on the map refer to PPM (part per million) and are derived from the instrument as raw data.

3. Geophysical survey results and interpretation

3.1 Results

The sounding frequency is the key parameter controlling the depth of investigation. Lower frequencies equate to a greater depth of investigation with high frequencies equating to shallow depths of investigation. Figures 2 to 6 in Appendix A display the EC of the ground at decreasing frequencies, this equates to an increasing depth of investigation as you proceed through the figures.

Common to all EC figures is the outer perimeter of the Bullen Oval field. This is represented as high (white) EC values which are a direct reflection of the conductivity of the metallic fence that encompasses the oval. Other isolated highs within the data that can be attributed to metallic objects observed on-site have been omitted from the results and interpretation.

Three zones of moderate to high EC can be observed within the confines of the field and are more pronounced at higher frequencies. Drainage pipes and channels can also be observed in the high frequency data, particularly in the north-eastern section of the oval, and is represented as linear orthogonally crossing features.

At lower frequencies, high EC values are also observed along the eastern perimeter of the survey area.

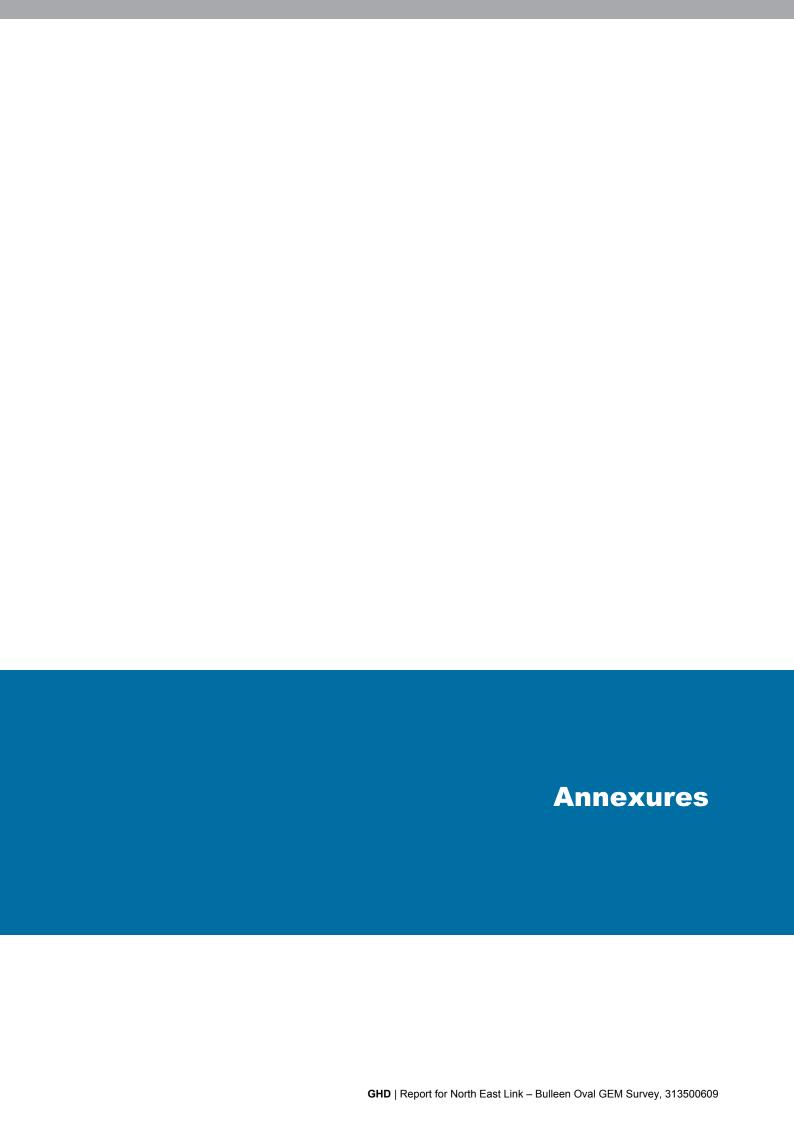
The Q Sum image displayed in Figure 7 in Appendix A clearly displays high PPM values correlating with high EC values observed throughout the various frequency EC images.

3.2 Interpretation

Interpreted landfill extents are displayed in Figure 8 in Appendix A and have been constructed from high EC and Q Sum values commonly associated with land fill. The extent of these zones correlate with boreholes BH128, BH125 and BH039 where approximately three metres of fill was intersected. The interpreted fill zone to the east correlates with BH126 where approximately one metre of fill was intersected. No high EC values are observed in proximity to BH127, where one metre of fill was intersected. This implies the fill at this location has a similar EC to the surrounding materials and cannot be mapped by this method.

3.3 Discussion

The Bulleen Oval proved to be a complex site with regard to the GEM2 electromagnetic survey. Large metallic structures were prevalent and isolated metallic objects were observed throughout the area. High EC and Q Sum values observed on the field are interpreted to result from waste fill. Caution must be taken with this interpretation, as an increase in these values could also result from an increase in moisture content or presence of clay. The GEM2 EM technique produced reasonable results in this scenario but failed to image one zone, where waste is known to exist from borehole data.



Annexure A – GEM survey images









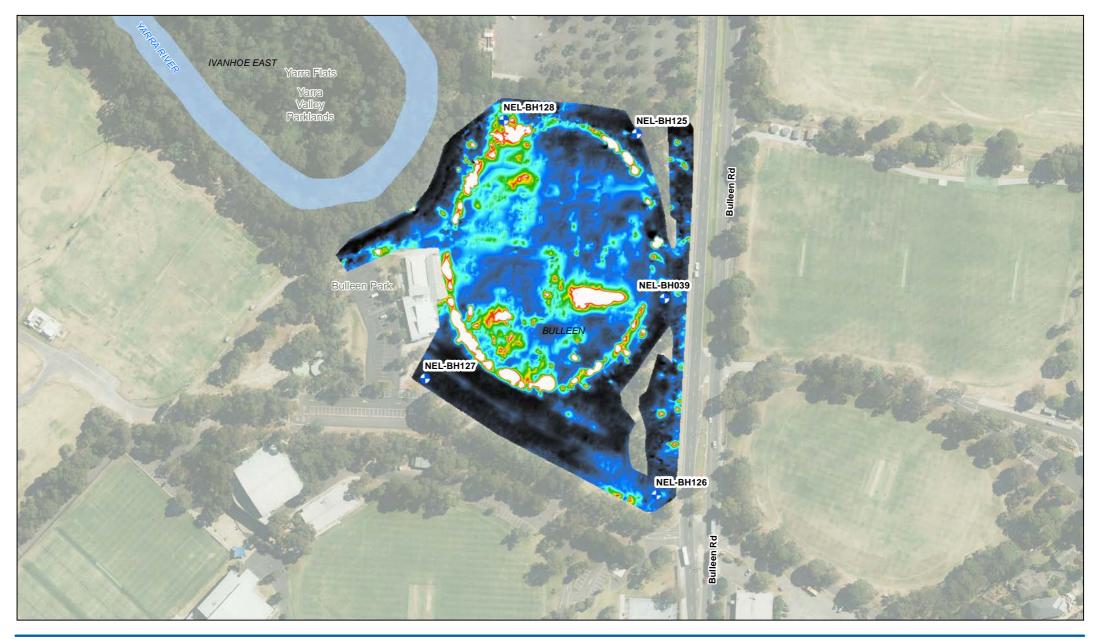


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vision | A Date | 28/02/2019

Bulleen Oval GEM Survey Survey Area









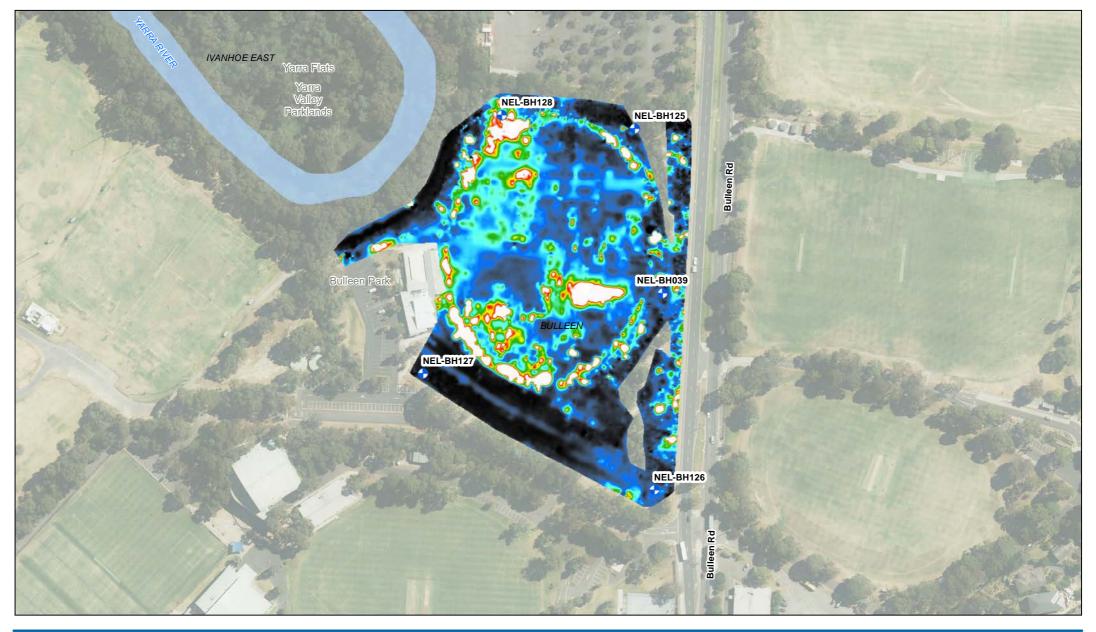


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Date 28/02/2019

Bulleen Oval GEM Survey Electrical Conductivity 34825 Hz











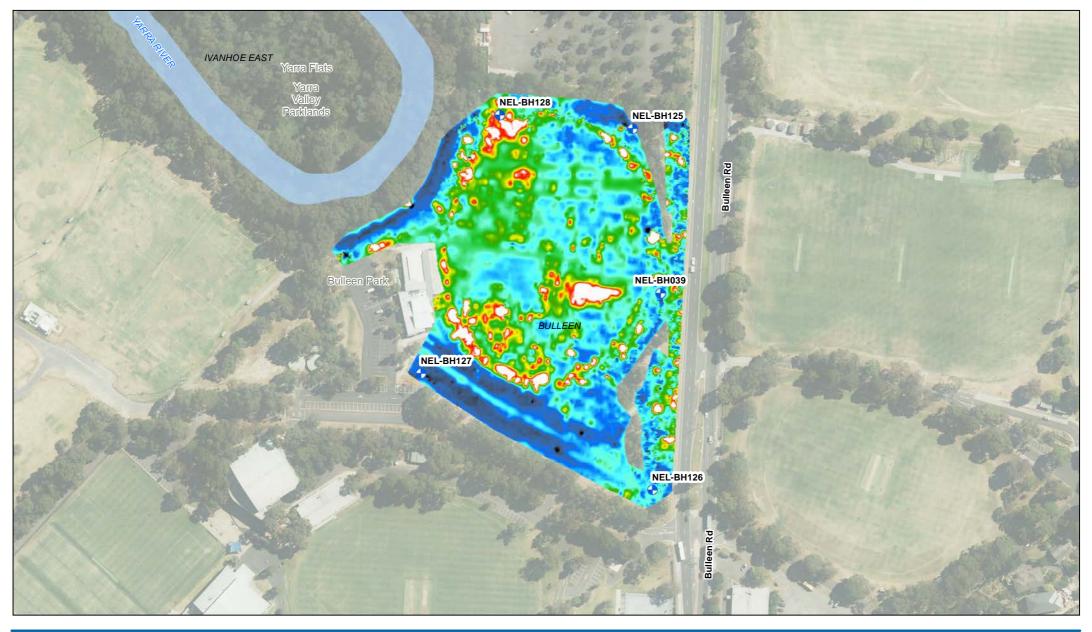
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Environment Effects Statement (EES)

Job Number | 31-35006 Revision | A

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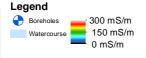
Revision | A
Date | 28/02/2019

Bulleen Oval GEM Survey Electrical Conductivity 14625 Hz







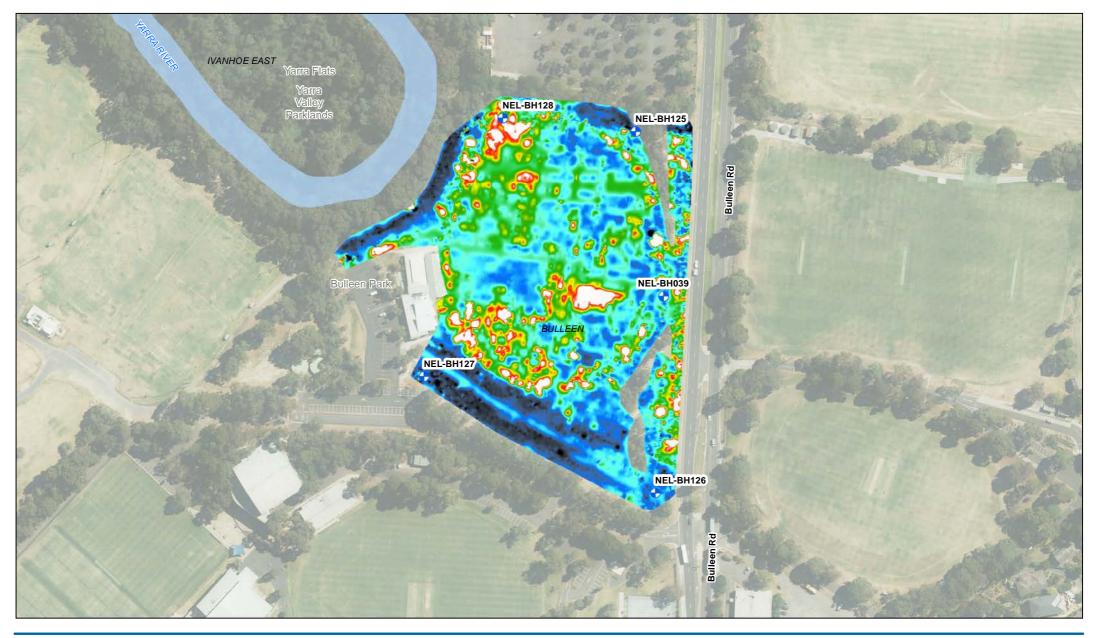




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Job Number | 31-35006 Revision Date 28/02/2019

Bulleen Oval GEM Survey









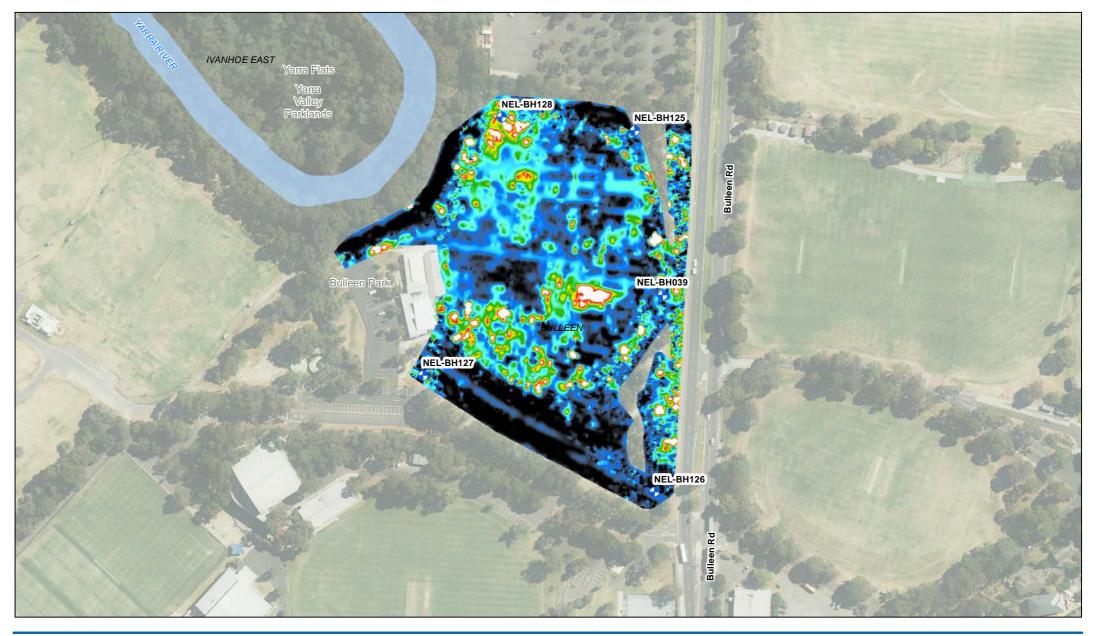


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Date 28/02/2019

Bulleen Oval GEM Survey Electrical Conductivity 4225 Hz









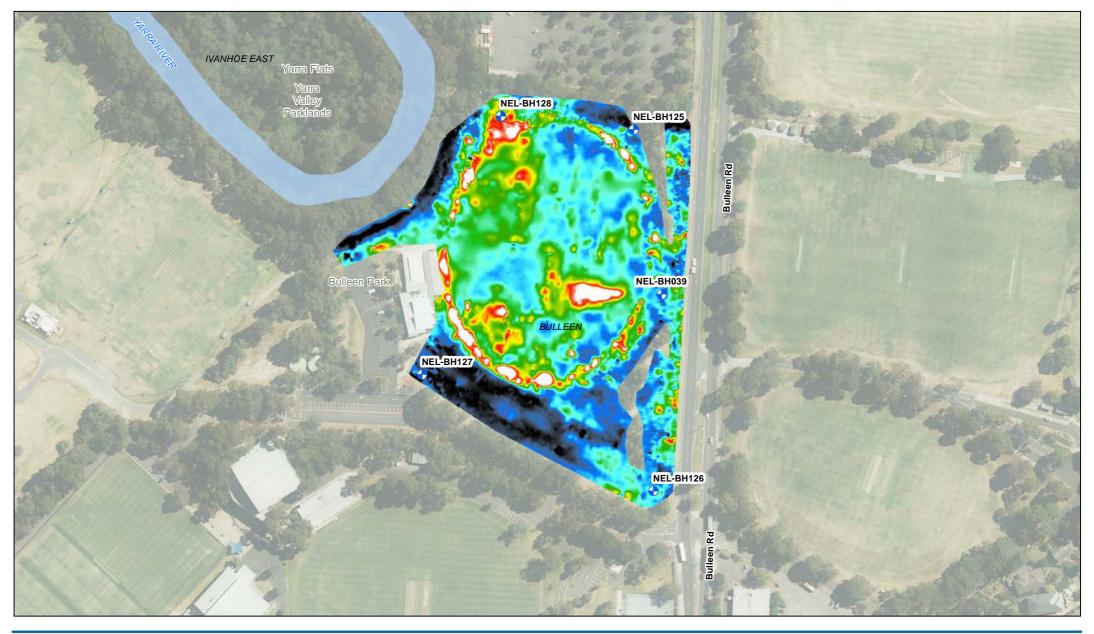


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Bulleen Oval GEM Survey Electrical Conductivity 1875 Hz









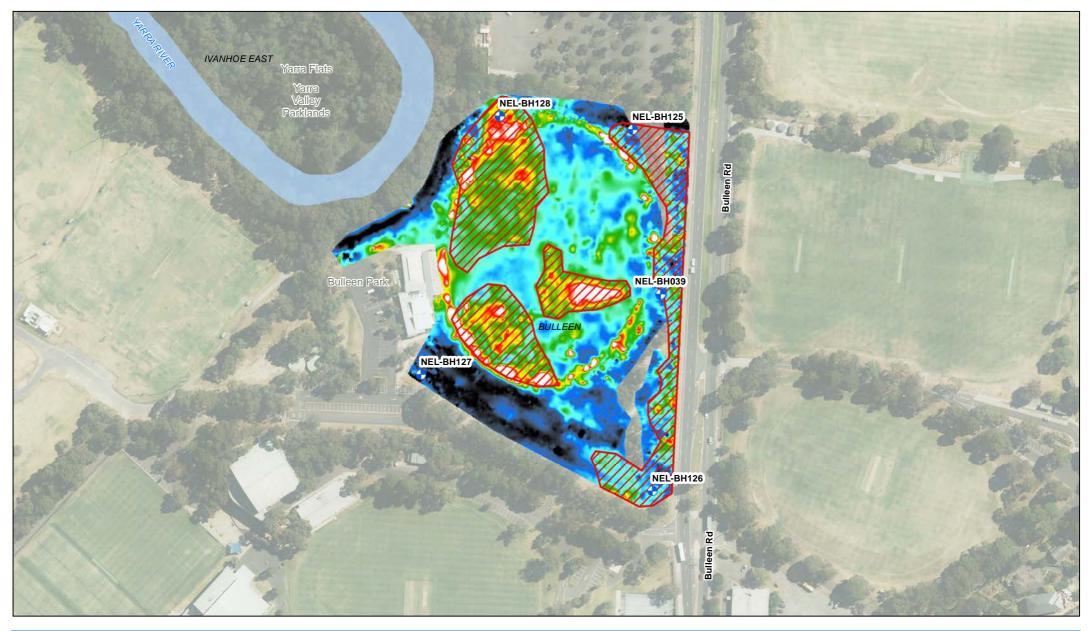


North East Link Project Environment Effects Statement (EES)

Job Number | 31-35006 Revision A

Date 28/02/2019

Bulleen Oval GEM Survey Electrical Conductivity Q Sum











North East Link Project Jo Environment Effects Statement (EES)

Job Number 31-35006 Revision A

Revision | A Date | 28/02/2019

Bulleen Oval GEM Survey Interpreted Fill Extents Q Sum

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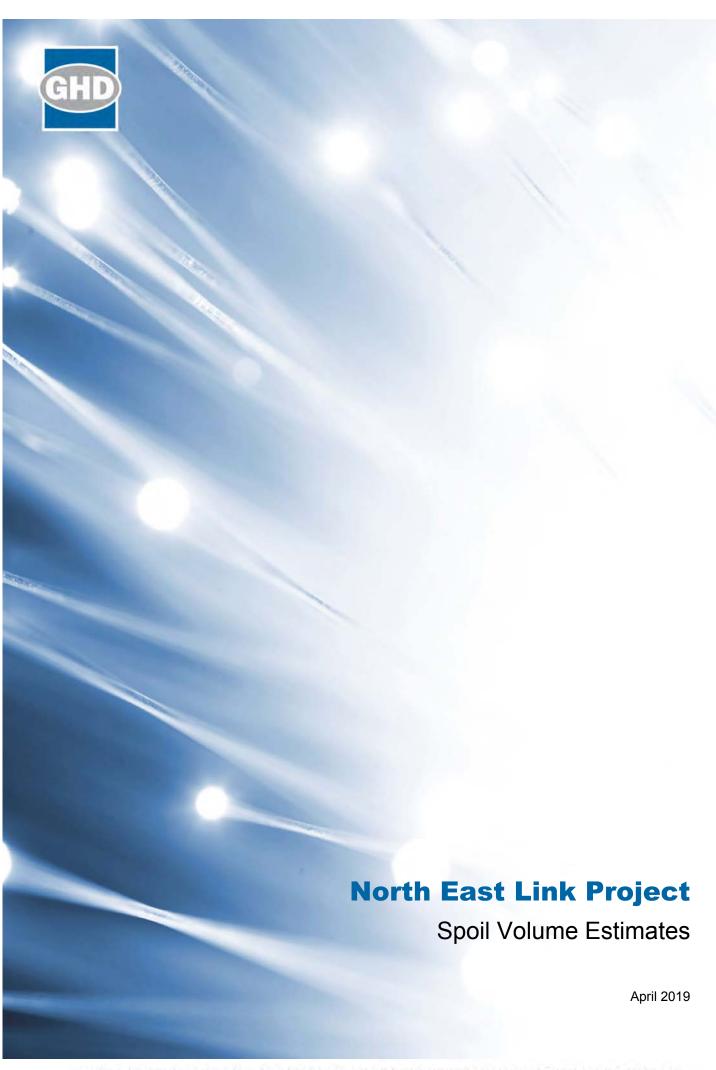
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Appendix M – Spoil volume report



This publication is prepared to inform the public about the North East Link. This publication may be of assistance to you but the North East Link Project (a division of the Major Transport Infrastructure Authority) and its employees, contractors or consultants (including the issuer of this report) do not guarantee that the publication is without any defect, error or omission of any kind or is appropriate for your particular purposes and therefore disclaims all liability for any error, loss or other consequence which may arise from you relying on any information in this publication.

Executive summary

The purpose of this Spoil Volume Estimate report for North East Link ('the project') is to:

- Present a total spoil volume estimate for the reference project
- Outline the approach for classifying soils in accordance with the Industrial Waste Resource Guidelines (IWRG) Publication 621 Soil Hazard Categorisation and Management
- Present a soil volume estimate for prescribed industrial waste (PIW) and waste acid sulfate soil (WASS).

The following assumptions and limitations have been applied to this strategy:

- No bulking factor has been applied for volume estimation, so unless otherwise noted the
 volumes discussed in this strategy are in-situ soil and rock/dense volumes. The
 excavated spoil volume would be greater than the in situ volume. A bulking factor of
 approximately 1.3 would be expected.
- The total spoil estimates contained within this document are based on cut volumes from the reference project (dated 17 August 2018). The volumes presented in this report are estimates only based on the 17 August 2018 reference project with an accuracy of plus or minus 20 per cent.
- The acid sulfate soil estimates contained within this report are based on geological volume estimates prepared by the geotechnical team. These estimates are based on a 3D visual estimation.

Based on the works outlined in Section 3.4 and Section 4.1 of this report, the spoil and prescribed industrial waste volumes have been estimated in the tables below. **NOTE** – the values in the tables below have been rounded from those in Table 4-2 within the report.

Indicative spoil volumes estimate (m³ in-situ)

Project element	Estimated volumes (m³)
M80 Ring Road to northern portal	2,155,000
Northern to southern portal	3,265,000
Eastern Freeway	680,000
Total	6,100,000

Indicative PIW volumes estimate (m³ in-situ) – values generated by rounding those in Table 4-2

	Estimated volumes (m³ in situ)						
		Contamir	nated spoil	(PIW)			
Location by project element	Fill material	Cat A	Cat B	Cat C	Total PIW	Sub total	
M80 Ring Road to northern portal	2,120,000	-	3,000	32,000	35,000	2,155,000	
Northern portal to southern portal	3,111,000	5,500	11,500	137,000	154,000	3,265,000	
Eastern Freeway	612,000	500	1,500	66,000	68,000	680,000	
Total	5,843,000	6000	16,000	235,000	257,000	6,100,000	

Based on the works outlined in Section 4.2 of this report, the following estimates of waste acid sulfate soil and rock have been estimated in the table below.

Acid sulfate soil volume estimate (m³ in-situ)

		inage ximate)		acid sulfate erials	Approximate WAAS volume (m³)			
Location by project element	Start	End	% Recent alluvial soil	% MW, SW, FR Siltstone	ASS	ASR	ASS/ASR (Total)	
M80 Ring Road to northern portal			0%	0%	-	-	-	
Northern portal to	42,900	43,300	0%	40%	-	161,000	161,000	
LPR - ZONE 2A	43,300	43,600	0%	70%	-	281,000	281,000	
TBM tunnel (LPR to Bridge Street) - ZONE 2B	43,600	46,620	0%	100%	-	1,185,000	1,185,000	
Manningham Road /Banksia interchange - ZONE 2C	43,900	47,280	30%	33%	207,000	227,000	434,000	
Mined tunnel (under Bulleen Road and property) - ZONE 2D	47,280	47,700	0%	90%	-	139,000	139,000	
Mined tunnel to southern portal - ZONE 2E	47,700	48,400	90%	10%	387,000	43,000	430,000	
Eastern Freeway			Minor	minor				
				Total	594,000	2,036,000	2,630,000	

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1. Introduction

1.1 Project description

North East Link ('the project') is a proposed new freeway-standard road connection that would complete the 'missing link' in Melbourne's metropolitan ring road, giving the city a fully completed orbital connection for the first time. North East Link would connect the M80 Ring Road (otherwise known as the Metropolitan Ring Road) to the Eastern Freeway, and include works along the Eastern Freeway.

The project would also support a range of complementary and associated works, separate from the project. These would be subject to separate regulatory and planning assessment and approval processes.

To facilitate delivery, North East Link would require temporary and permanent land occupation, drainage and flood mitigation works, and the use of tunnel boring machines (TBMs) to construct most of the tunnel length. These works would generate a significant volume of excavated spoil that would need to be managed since:

- The spoil cannot be placed back in the excavations
- There may be limited opportunities within the project for reuse
- A portion of the spoil would be contaminated and not suitable for reuse on-site or off-site.

For planning purposes, it is therefore important to understand the magnitude of spoil likely to be generated by the project and the level of contamination within the spoil.

1.2 Purpose of this report

The purpose of this Spoil Volume Estimate report is to:

- Present an indicative estimate of the total spoil volume predicted to be generated by the project
- Present an indicative estimate of the volume of the various waste categories of the spoil based on EPA Victoria Publication Industrial Waste Resource Guidelines (IWRG) 621
 Soil Hazard Categorisation and Management (IWRG621)
- Present spoil volume estimate for prescribed industrial waste (PIW) and waste acid sulfate soil (WASS).

1.3 Scope

This spoil volume estimate has been structured to provide the following details for the project:

- Preliminary spoil categorisation in accordance with the Environment Protection Act 1970
 (Vic) ('EP Act') and Environment Protection (Industrial Waste Resource) Regulations
 2009 (Vic)
- Estimate of WASS volume.

This estimate would continue to be developed and revised during the detailed design and construction planning for North East Link as additional data became available.

1.4 Project elements

The North East Link has been separated into three key elements for the Environment Effects Statement (EES):

- M80 Ring Road to the northern portal from the M80 Ring Road at Plenty Road, and
 the Greensborough Bypass at Plenty River Drive, North East Link would extend to the
 northern portal near Blamey Road utilising a mixture of above, below and at surface road
 sections. This would include new road interchanges at the M80 Ring Road and Grimshaw
 Street.
- Northern portal to southern portal from the northern portal the road would transition
 into twin tunnels that would connect to Lower Plenty Road via a new interchange, before
 travelling under residential areas, Banyule Flats and the Yarra River to a new interchange
 at Manningham Road. The tunnels would then continue to the southern portal located
 south of the Veneto Club.
- Eastern Freeway from around Hoddle Street in the west through to Springvale Road in the east, modifications to the Eastern Freeway would include widening to accommodate future traffic volumes and new dedicated bus lanes for the Doncaster Busway. There would also be a new interchange at Bulleen Road to connect North East Link to the Eastern Freeway.

These elements are illustrated in Figure 1-1

The project would also improve existing bus services from Doncaster Road to Hoddle Street through the Doncaster Busway as well as pedestrian connections and the bicycle network with connected walking and cycling paths from the M80 Ring Road to the Eastern Freeway.

For a detailed description of the project, refer to EES Chapter 8 – Project description.

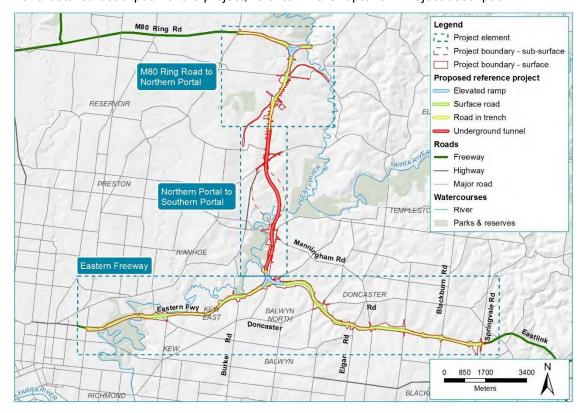


Figure 1-1 Overview of North East Link

1.5 Assumptions and limitations

The following assumptions and limitations apply to this strategy:

- No bulking factor has been applied for volume estimation, so unless otherwise noted the
 volumes discussed in this strategy are in-situ soil and rock/dense volumes. The
 excavated spoil volume would be greater than the in situ volume. A bulking factor of
 approximately 1.3 would be expected.
- The current sampling density provides indicative estimates of waste categories only and does not currently meet:
 - The minimum number of samples to characterise potentially contaminated soil for reuse or disposal, as detailed in EPA Victoria Publication IWRG 702 Soil Sampling, 2009 (IWRG702).
 - The minimum number of samples specified in the Australian Standard 4482.1-2005 to identify a contamination hotspot of a specified size, based on the size of the project.

Further sampling would be required to meet these sampling densities.

1.6 Report structure

The development of indicative spoil volume estimates and preliminary waste classification has involved a two-stage approach:

- Stage 1 involved estimating the total volume of spoil that would likely be generated during North East Link's construction. This stage did not consider waste categories. The methodology and results are presented in Section 3.
- 2. Stage 2 involved estimating the relative amounts of each waste category within the total spoil volume. The methodology and results are presented in Section 4.

2. Areas of interest

EES Technical report O – Contamination and soil describes the process whereby areas considered to have the most potential for contaminated soil to be present were identified. These 'areas of interest' were considered more likely to contain contamination than other areas of the alignment as they are associated with industrial activities and historical landfilling.

The historical assessment identified 11 areas of interest along the North East Link alignment. These areas were highlighted as requiring consideration for the potential for contamination in the assessment of waste volumes. The quantity of spoil within each of the potentially contaminated areas has been estimated based on limited available analytical data and assumptions regarding the distribution of contamination and land activities. It is envisaged the extent of contamination in these areas would be characterised more fully as part of the detailed design process for North East Link.

The 11 areas of concern within each project element include:

M80 Ring Road to northern portal

- Fuel service station located at the corner of Yallambie and Greensborough Road, Greensborough
- Former quarry (backfilled with solid inert and putrescible waste material) located at the M80 Ring Road and Greensborough Bypass, Greensborough
- Former landfill located at AK Lines Reserve, Watsonia.

Northern portal to southern portal

- Bulleen Industrial Precinct area in the vicinity of Bulleen Road and Manningham Road intersection, Bulleen
- Former landfill located at Borlase Reserve, Yallambie
- Former landfill located at Bulleen Park, Bulleen.

Eastern Freeway

- Former Camberwell Landfill located at Musca Street Reserve and Freeway Public Golf Course, Balwyn North
- Former Greythorn Landfill located at the corner of Doncaster Road and the Eastern Freeway, Balwyn North
- Former quarry (potentially backfilled with uncontrolled fill) located near Rocklea Road and Yarraleen Place, Bulleen
- Potential former landfill located at Koonung Creek Linear Reserve.

The desktop assessment also identified the potential for soil (particularly Quaternary aged alluvial soil) and Silurian aged siltstone (fresh to moderately weathered) to present a risk of actual or potential acid sulfate soil. This is discussed in Section 4.2, although no specific assessment data was available.

3. Indicative spoil volume estimates

The indicative spoil volume estimates have been developed to provide an understanding of the likely spoil to be generated during North East Link's construction. The estimates were used to:

- Provide a basis on which to estimate waste categories
- Inform the Spoil Management Strategy being prepared by the EES contaminated land specialist team and incorporated in EES Technical report O – Contamination and soil
- Estimate the number of trucks needed to transport spoil from the works site which would be an input to EES Technical report A – Traffic and transport.

3.1 Methodology

MX 3D modelling software was used to model the road design and earthworks for the entire North East Link project. The MX model includes all structural overpasses and underpasses and footpaths. To estimate the excavated volume, all overpass and underpass, like bridges, roads and walking and cycling paths are removed to create a separate surface model.

Calculating the volumes for an isopachyte triangulation is an extension to that for a simple triangulation. The isopachyte triangulation is the combination of two triangulations whereby the triangles of one surface are totally reflected in the other. The 'level' associated with each vertex of the combined triangulation is actually a level difference from one surface to the other. Due to the sophistication in the isopachyte algorithms, the resulting triangulation may be thought of as a simple triangulation for which the 'level difference' of zero represents the intersection of the two surfaces. Consequently, calculating the volumes to an assumed level datum of zero provides the cut and fill volumes for an ISOS triangulation.

3.2 Design base

The existing surface terrain has been merged into a single model using VicRoads Lidar and Feature Survey, supplied by the North East Link Project (NELP) at the start of the project in 2017.

The design surface version is based on the project's *Draft Reference Design – Rev A and Rev B* issued on 18 May 2018 and 25 May 2018 respectively.

3.3 Assumptions

The following assumptions were made in estimating the spoil volumes:

- Estimated volumes are bank volumes and are not bulked.
- The MX model calculates excavation volumes from the finished road level. A one-metre
 pavement depth or structural depth is assumed below the finished road level. The extra
 one metre was manually calculated and added to the MX generated volumes.
- In trough sections, the MX model calculates spoil volume from face to structural walls.
 The reference project does not include structural design. For the purpose of this report,
 trough structural walls are assumed to be 1.2-metres thick. The extra 1.2 metres on both
 sides of a tough section was manually calculated and added to the MX generated
 volumes.

- The TBM tunnels are assumed to have an outer diameter of 15.7 metres, equalling 193.62 m²
- The mined tunnels are assumed to have an outer diameter of 15.7 metres above road with reduced excavation under road. Tunnel drawings were used to calculate a tunnel cross-sectional area of 180 m².

3.4 Model results – indicative spoil volume estimates

The total indicative spoil volume estimates for the project are presented in Table 3-1. **NOTE** – the values have been rounded from those in Table 4-2.

Table 3-1 Indicative volume estimates of excavated material

Project element	Estimated excavated volume (m³)
M80 Ring Road to northern portal	2,155,000
Northern to southern portal	3,265,000
Eastern Freeway	680,000
Total	6,100,000

The volumes of soil estimated to be excavated from the areas of interest described in Section 2 are summarised in Table 3-2. These areas are considered most likely to contain contaminated soil.

Table 3-2 Indicative volume estimates of excavated material per area of interest

Project element	Area	Туре	Estimated excavated volume (m³)
M80 Ring Road to northern portal	M80 Greensborough Bypass intersection	Landfill	25,700
	AK Lines Reserve	Landfill	9,000
	Watsonia railway station	Contaminated land	93,100
	Coles Express fuel on Yallambie Road	Contaminated land	86,000
Northern portal to	Borlase Reserve	Landfill	193,300
southern portal	Bulleen Park Football Oval*	Landfilling	31,000
	Bulleen Industrial Precinct including the former Bulleen Drive-in	Contaminated land	874,000
	Former Bulleen quarry	Contaminated land	80,000
Eastern Freeway	Bulleen Oval*	Landfilling	31,000

^{*}Estimates for this area of interest are divided evenly across the northern portal to southern portal and the Eastern Freeway project elements.

3.5 Limitations

The following limitation have been identified:

- The MX model does not include walking and cycling paths and structural elements such as retaining walls. For the purpose of these estimates, retaining walls in all trough sections were manually calculated.
- In isolated areas, the outer MX model string (verge or interface) does not intersect with the natural ground surface level. The model creates a 'vertical' line until it intersects with existing triangulation model. The volume error created by the model is minor.
- The calculated volumes are based on Lidar survey. There may be discrepancies between the model Lidar survey and feature survey.
- Tunnel cross passages do not form part of the current MX model, and have not been included in the volume calculations. Manual calculations estimate cross passages will generate approximately 10,000 m³ of spoil.
- Along the Eastern Freeway, the new road design is simply draped across the existing
 with an assumed 200-metre asphalt overlay. A detailed pavement design does not form
 part of the reference project, and the vertical profile does not represent the final design.
 The spoil volumes have allowed for new carriageways to be constructed.

4. Preliminary waste classification

EPA Victoria Publication IWRG621 – *Soil hazard categorisation and management* provides the criteria for the categorisation of waste in Victoria. It defines three categories of prescribed industrial waste (PIW) and Fill Material (often referred to as 'clean fill'). The categories are based on specified upper and lower threshold levels (concentrations) of a number of contaminants which are determined through sampling and analysis of soils.

Categorisation of waste soil is required to:

- Provide an indication of likely waste management requirements, noting there are different options for management of each category, which are set out in Table 4-1.
- Demonstrate to landfills the soil meets the relevant criteria.

Table 4-1 Contaminated soil management options (from IWRG621)

Category	General options	Landfill			
A	On-site remediation Off-site remediation Storage pending availability of treatment	No disposal to landfill EPA Victoria transport certificates must be used. Vehicles must hold EPA Victoria permit (unless exemption issued)			
В	On-site remediation Off-site remediation Licensed facility	Disposal to licensed facility EPA Victoria transport certificate system must be used Vehicles must hold EPA Victoria permit (unless exemption issued)			
С	On-site remediation Off-site remediation Licensed landfill	Disposal to licensed landfill EPA Victoria transport certificates must be used Vehicles must hold EPA Victoria permit (unless exemption issued)			
Fill Material	Reuse, off-site disposal. Not regulated by EPA Victoria. However, the <i>Environment Protection Act 1970 (Vic)</i> places general obligations to prevent adverse impacts on the environment and human health. Where there is potential for adverse impacts from the deposit of Fill Material, advice should be sought from EPA Victoria.				

The indicative estimates of waste volumes described below are based partly on the results of a preliminary site historical investigation and limited soil and rock sampling and analysis along the North East Link alignment plus a number of assumptions regarding depth and area of contamination and judgements on how much volume to assign to the various IWRG Categories.

Quantifiable levels of certainty regarding these assumptions and judgements are not assigned and the Contractor must conduct their own due diligence in the assigning of volumes to waste categories. This would likely require additional sampling and analysis to meet at least minimum sampling densities defined in EPA Victoria Publication IWRG702 – *Soil sampling*.

This sampling and analytical work which informed the development of these estimates were developed was undertaken by the Land Contamination team and is detailed in EES Technical report O – Contamination and soil.

4.1 Areas of interest

The volumes estimated and presented in Section 3.4 and Table 3-2 provide an understanding of the total volume of spoil to be removed from the project area. The following sections assign waste categories to all or part of those volumes based on a number of assumptions and judgements regarding distribution of contamination within the spoil.

4.1.1 M80 Ring Road to northern portal

Former quarry, M80 Ring Road and Greensborough Bypass, Greensborough

A former quarry that was backfilled with waste is located at the Metropolitan Ring Road and Greensborough Bypass. VicRoads test pitting for the M80 Ring Road upgrade project identified the presence of historical waste deposition. Historical aerials photographs indicate the quarry was likely backfilled with waste in the 1950s. Planned construction types in this area consist of surface and structure viaducts. In situ cut volumes for North East Link at the location of the former quarry are estimated to be 25,700 m³ (in-situ) (refer to **Figure 1 – Annexure A**). No sampling of soil/waste for contamination assessment has been undertaken in this area. Therefore, to provide some indication of the possible volumes of each waste category to be managed, the following assumptions have been made:

- 50 per cent of the landfill comprises Fill Material (12,850 m³)
- 50 per cent of the landfill comprises PIW (12,850 m³)
- 90 per cent of the PIW volume is classified as Category C (11,565 m³)
- 10 per cent of the PIW volume is classified as Category B (1,285 m³).

The main geological unit likely to be encountered in this area is the Silurian siltstones. Sampling elsewhere along the North East Link alignment has indicated this material is either Category (based on fluoride in particular) or Fill Material. Therefore, the greatest proportion of the PIW has been assigned Category C. A smaller percentage of Category B PIW (10 per cent) is assigned to account for any unidentified more highly contaminated waste contained within the former landfill.

Reclassification of most or a portion the Silurian siltstone material to Fill Material could potentially be achieved based on the likelihood that fluoride in particular is naturally occurring. This would reduce the volume of PIW considerably and allow for lower disposal/treatment costs.

The estimates of PIW would need to be verified by soil sampling on-site at the detailed design stage of North East Link.

Fuel service station, corner of Yallambie Road and Greensborough Road, Greensborough

The indicative volume estimate for excavated material at the Coles fuel service station on the corner of Yallambie Road and Greensborough Road is approximately 86,000 m³, based on a cut area of approximately 5,574 m² (refer to Section 3.4). Of that, the service station footprint covers approximately 1,650 m². The service station is considered the main location of potentially contaminated land in this area. Based on an area of 1,650 m² and an excavation depth of 10 metres, it is assumed that approximately 16,500 m³ (in-situ) of spoil is expected to be excavated from the service station (refer to **Figure 2 – Annexure A**). No sampling of soil/waste for contamination assessment has been undertaken on the service station. Therefore, to provide some indication of the possible volumes of each waste category to be managed, the following assumptions have been made:

- 50 per cent of the spoil excavated from the service station footprint comprises PIW (8,250 m³) with the other 50 per cent being Fill Material
- 90 per cent of the PIW volume is classified as Category C (7,425 m³)
- 10 per cent of the PIW volume is classified as Category B (825 m³).

Not all of the soil beneath the service station foot print will be contaminated. Most of any impacted soil will be located close to underground storage tanks (USTs) and bowsers. It is assumed these might occupy up to half of the site. It is further assumed the most contaminated material (Category B) will be localised closer to the USTs and bowsers where leaks have occurred and that the concentrations of petroleum hydrocarbons decrease away from those areas. This would result in a wider area of somewhat less contaminated material (Category C) hence the assumption around higher volumes of Category C material.

The main geological unit likely to be encountered in this area is the Silurian siltstones. Sampling around the service station has indicated this material is either Category (based on fluoride in particular) or Fill Material – with Category C based on fluoride and, to a lesser extent, nickel. Hence the remaining spoil is assigned Fill Material classification.

The estimates of PIW would need to be verified by soil sampling on-site at the detailed design stage of North East Link.

Former landfill, AK Lines Reserve, Watsonia

A former landfill was identified at AK Lines Reserve, Watsonia. Historical aerials indicate that filling likely commenced in the late 1950s and ceased in the mid-1960s. Planned construction types at this location are surface and a walking and cycling path underpass planned through the eastern section of the reserve. Excavation volumes at the location of AK Lines Reserve are estimated to be 9,000 m³ (in-situ) (refer to **Figure 3 – Annexure A**). No sampling of soil/waste for contamination assessment has been undertaken in this area but a geotechnical borehole in the north-east of the Reserve, immediately adjacent the North East Link alignment (NEL-BH044) did not indicate landfill material. Therefore, to provide some indication of the possible volumes of each waste category to be managed, the following assumptions have been made:

- 50 per cent of the proposed excavation area comprises Fill Material (4,500 m³)
- 50 per cent of the proposed excavation area comprises PIW (4,500 m³)
- 90 per cent of the PIW volume is classified as Category C (4,050 m³)
- 10 per cent of the PIW volume is classified as Category B (450 m³).

While no landfill material was observed, it was decided to take a conservative approach with this area due to the lack of analytical data and assign 50 per cent of the spoil as PIW. In addition, the main geological unit likely to be encountered in this area is the Silurian siltstones, which have been classified along the North East Link alignment as either Category C or Fill Material. Therefore, the greatest proportion of the PIW has been assigned Category C. A smaller percentage of Category B PIW (10 per cent) is assigned to account for any unidentified more highly contaminated waste that might be present within the former landfill.

The estimates of PIW would need to be verified by soil sampling on-site.

Watsonia railway station/commercial area

Historical aerial photographs from the Watsonia railway station and car park area identified that a fuel service station was previously located towards the southern end of the car park area and that several small sheds, potentially connected with the railway were located close to the railway building itself. The car park area does not appear to have been used as a railway siding and so the potential for impact is low. Limited soil sampling undertaken across the car park identified concentrations of fluoride and nickel exceeding Fill Material criteria, but this is considered likely to represent natural background concentrations. Natural soil/weathered rock was encountered at shallow depths across the car park and outcrops at the surface in some areas.

The spoil estimate is based on the car park area of approximately 35,000 m² (refer to **Figure 4 – Annexure A**) and a total depth of impacted material of 0.5 metres (allowing for averaging across the site). This results in a total spoil volume of 15,000 m³. To provide some indication of the possible volumes of each waste category to be managed, the following assumptions have been made:

- 50 per cent of the spoil in the 35,000 m² car park area comprises PIW (8,750 m³) with the remainder comprised of Fill Material
- 100 per cent of the PIW is classified as Category C (8,750 m³).

The main geological unit likely to be encountered in this area is the Silurian siltstones. Sampling in this area and along the North East Link alignment has indicated this material is either Category C (based on fluoride in particular) or Fill Material. Therefore, a proportion of PIW has been assigned as a conservative approach. As there has been no former landfills or significant industrial activity in this area, all of the PIW was assigned as Category C. However, the volume of Category C would likely be able to be reduced through reclassification as Fill material based on the fluoride in the rock being naturally occurring.

The estimates of PIW would need to be verified by further soil sampling on-site and application to the EPA for reclassification of the Category C material to Fill Material.

4.1.2 Northern portal to southern portal

Former landfill, Borlase Reserve, Yallambie

A former landfill has been identified at Borlase Reserve, Yallambie. Historical aerial photographs indicate that filling likely commenced in the 1960s and ceased in the mid-1960s. Minor amounts of construction and demolition (C&D) waste were observed during limited geotechnical investigative drilling in boreholes at the reserve. The C&D waste was shallow with a maximum depth of 3.0 mbgl observed. Preliminary soil analysis from BH100, BH106 and BH107 indicated the soil meets Fill Material criteria in accordance with IWRG 621. However, the presence of C&D waste would suggest that contamination of soil is likely and that PIW is present. It is also noted that soil containing C&D waste cannot be characterised as Fill Material and may require disposal to landfill as inert waste.

The spoil estimate is based on an area of approximately 35,000 m² (refer to **Figure 5 – Annexure A**), an average depth of fill soils of 2 metres (70,000 m³). To provide an indication of the possible volumes of each waste category to be managed, the following assumptions have been made:

- 50 per cent of the 35,000 m² area comprises PIW (35,000 m³) with the remainder comprised of Fill Material
- 100 per cent of the PIW is classified as Category C (35,000 m³).

It is noted that the quantity of Category C waste could increase if asbestos containing materials are identified within the C&D waste, although ACM has not been encountered to date.

The estimates of PIW and quantity of C&D waste need to be verified by soil sampling on-site. It is possible that inert waste could be separated from the soils and recycled, but that may not be possible due to availability of space and time.

Bulleen Industrial Precinct, vicinity of Bulleen Road and Manningham Road intersection, Bulleen

Approximately 874,000 m³ (in-situ) of spoil would be generated within the Bulleen Industrial Precinct including the former Bulleen Drive-in. However, it is estimated the precinct covers approximately 100,000 m² and contamination extend to a depth of generally less than 2 metres (a total of 200,000 m³) (refer to **Figure 6 – Annexure A**). Due to restrictions in accessing private property within the commercial/industrial in Bulleen, targeted soil sampling was unable to be undertaken and drilling has been conducted in the surrounding public land. To provide some indication of the possible volumes of each waste category to be managed, the following assumptions have been made:

- 50 per cent of the spoil in the 100,000 m² area comprises PIW (100,000 m³) with the remainder comprised of Fill Material
- 85 per cent of the PIW is classified as Category C (85,000 m³)
- 10 per cent of the PIW is classified as Category B (10,000 m³)
- 5 per cent of the PIW is classified as Category A (5,000 m³).

Industrial areas are likely to contain localised 'hot spots' of contamination associated with various industrial activities. As the Bulleen Industrial Precinct contains fuel service stations and a dry cleaner, there is a high likelihood of the presence of contamination from petroleum hydrocarbons and volatile organic compounds (VOCs), notably perchloroethene (PCE). Typically, this type of material can result in highly contaminated soil, albeit localised around source areas. Hence, a conservative approach has been taken to assign a proportion of PIW to Category B and A. The majority of any PIW is likely to be Category C given that the main geological unit likely to be encountered in this area is the Silurian siltstones, the sampling of which in this area has indicated either Category C (based on fluoride in particular) or Fill Material.

The estimates of PIW would need to be verified by targeted soil sampling across the Bulleen Industrial Precinct.

Former quarry, Bulleen

The desktop historical investigation identified the presence of a former quarry and potentially brick/tile factory in the vicinity of Rocklea Road, Bulleen. The area has since been redeveloped and is now currently used for low density residential land use. It is not clear what the final depth of excavation in the quarry was, but it would have been expected to be less than 10 metres to avoid encountering weathered siltstone rock (as outlined on the *Geological Plan & Section Drawing No. 3135006-rd-drg-w00-01-gt-00001*). It is not clear whether the quarry has been backfilled with any waste or simply smoothed using overburden and other materials on-site. It is not expected the North East Link tunnels would encounter the former quarry, no spoil volume has been calculated.

Former landfill at Bulleen Park, Bulleen

A former landfill has been identified at Bulleen Park. Investigative geotechnical drilling encountered waste material (uncontrolled fill) consisting predominately of construction and demolition waste interspersed with soil. Based upon the four boreholes drilled to date, the depth of waste material has been observed to be present at a shallow depth with waste encountered at 0.1 metres in some boreholes and a maximum depth of three metres.

Preliminary soil investigation undertaken indicated that concentrations of metals exceeded Fill Material, Category B and Category C upper limits in selected soil samples. This indicated the presence of PIW in the landfill area and would include some Category B and Category A material, albeit of limited extent.

It is also noted that fragments of cement sheet considered likely to contain asbestos were observed in boreholes. Based on results from the limited sampling undertaken, it is assumed that 100 per cent of excavated spoil is contaminated. The impacted area is estimated to cover approximately 20,000 m² at an average depth of fill of two metres (40,000 m³) of spoil (refer to **Figure 7 – Annexure A**). To provide some indication of the possible volumes of each waste category to be managed, the following assumptions have been made:

- All of the spoil is categorised as PIW (40,000 m³⁾
- 85 per cent of the PIW is classified as Category C (34,000 m³)
- 12.5 per cent of the PIW is classified as Category B (3,000 m³)
- 2.5 per cent of the PIW is classified as Category A (1,000 m³).

The estimate assumptions have tried to account for the known presence of Category A and B material in the landfill. They also recognise that samples from the same location as those designated Category A and B were quite variable, suggesting that the volumes of Category B and A may not be extensive.

It is noted that C&D waste could be separated from soils and disposed under a different category.

The estimates of PIW and quantity of C&D waste need to be verified by soil sampling on-site. **NOTE** — As the Bulleen Park landfill is understood to straddle the northern portal to southern portal and Eastern Freeway elements of North East Link, for this estimate the volume was split 50:50 between the two elements (refer to Section 4.1.3). This is further indicated in Table 4-2.

4.1.3 Eastern Freeway

Bulleen Park landfill

As noted above, a former landfill beneath Bulleen Park is understood to straddle the northern portal to southern portal and Eastern Freeway elements of North East Link. For this estimate, the volume was split 50:50 between the two project elements. The indicative waste volume estimates for the area of concern therefore constitute half the volume reported in Section 4.1.2, and this is further indicated in Table 4-2.

Former Camberwell landfill, Musca Street Reserve and Freeway Public Golf Course (west section), Balwyn North

Historical aerial photos and Melway maps indicate the City of Camberwell municipal landfill operated from 1966 to 1977. The historical aerial photographs indicate the landfill extends into the current day Musca Reserve and western end of the Freeway Public Golf Course and it is likely a section of the Eastern Freeway was built over the former landfill during the roadway's circa 1977 construction. Planned construction at this location is limited to minor road widening and modifications for the bus lane. It is assumed that widening would need to involve initial removal of compressible landfill materials. An area of approximately 2,000 m² has been estimated based on proposed road alignment (refer to **Figure 8 – Annexure A**). No sampling had been undertaken as part of this project to assess soil quality or landfill content at the time of drafting this report.

To provide some indication of the possible volumes of each waste category to be managed, the following assumptions have been made:

- Landfill soils will require excavation to approximately five metres depth (10,000 m³).
- 100 per cent will be considered PIW Category C.

It is acknowledged that fill materials encountered may comprise putrescible or C&D wastes, which may not be classified as PIW.

The assumptions are by necessity conservative, based on the lack of analytical data available. They assume the spoil would be impacted to some extent by landfilling material and possibly by some backfilling with locally sourced soil derived from the Silurian siltstone. As discussed earlier, this siltstone material has been classified as Category C or Fill Material elsewhere along the North East Link alignment.

The estimates of PIW and potential for putrescible and or C&D waste (including ACM) would need to be verified by soil sampling on-site.

Former Greythorn landfill, corner of Doncaster Road and Eastern Freeway, Balwyn North

The former Greythorn landfill is located at the intersection of the Eastern Freeway and Doncaster Road in Balwyn North. EPA Victoria records indicate the former landfill operated for a limited period in the late 1970s. A 1978 aerial photograph shows an area where earth disturbance has occurred, which is likely the location of the former landfill site. Therefore, it is likely the Eastern Freeway was built over the former landfill, although it is not known what remedial works were undertaken at that time.

The construction types at this location include surface and surface viaduct. Excavation volumes for North East Link at the location of the Greythorn landfill are estimated to be approximately 6,500 m³ (in-situ) based on an area of 3,250 m² and an assumed depth of two metres (refer to **Figure 9 – Annexure A**). No sampling of soil/waste for contamination assessment has been undertaken in this area.

To provide some indication of the possible volumes of each waste category to be managed, the following assumptions have been made:

- 50 per cent of the spoil is categorised as PIW (3,250 m³⁾
- 100 per cent of the PIW is classified as Category C (3,250 m³).

The assumptions are by necessity conservative, based on the lack of analytical data available. They assume the spoil would be impacted to some extent by landfilling material and possibly by some backfilling with locally sourced soil derived from the Silurian siltstone. As discussed earlier, this siltstone material has been classified as Category C or Fill Material elsewhere along the North East Link alignment.

The estimates of PIW and potential for putrescible and or C&D waste (including ACM) would need to be verified by soil sampling on-site.

Potential former landfill, Koonung Creek Linear Park

Koonung Creek Linear Park is located to the north of the Eastern Freeway, between Tram Road and Wetherby Road. Historical aerial photographs indicate significant previous earth disturbance which locates the potential former landfill at the current day Koonung Creek Linear Park. North East Link construction works here would be surface roads, the structure viaduct and the walking and cycling path at surface as well as an overpass. No sampling had been undertaken as part of this project to assess soil quality or landfill content at the time of completing this report. It is estimated the area of the park to be disturbed is approximately 17,000 m² and the fill extends to a depth of two metres (34,000 m³) (refer to **Figure 10 – Annexure A**). To provide some indication of the possible volumes of each waste category to be managed, the following assumptions have been made:

- 50 per cent of the spoil is categorised as PIW (17,000 m³⁾
- 100 per cent of the PIW is classified as Category C (17,000 m³).

The assumptions are by necessity conservative, based on the lack of analytical data available. They assume the spoil would be impacted to some extent by landfilling material and possibly by some backfilling with locally sourced soil derived from the Silurian siltstone. As discussed earlier, this siltstone material has been classified as Category C or Fill Material elsewhere along the North East Link alignment.

The estimates of PIW and potential for putrescible and or C&D waste (including ACM) would need to be verified by soil sampling on-site.

Camberwell Public Golf course/Freeway Public Golf Course (East section)

Historical aerials indicate that filling likely occurred in the eastern portion of the Freeway Public Golf Course located approximately 200 metres to the south of the Bulleen Oval in Bulleen Park. This is confirmed by VicRoads Geological Plan (Drawing 206066) and Section through Camberwell Landfill (Drawing 206068) (VicRoads, 1970) which indicate that filling occurred in the east of the Freeway Public Golf Course adjacent to Bulleen Road. The North East Link project boundary in this area encroaches on the east and south-eastern edges of the Freeway Public Golf Course site. No sampling had been undertaken to assess soil quality or landfill content at the time of completing this report. The planned construction types at the Freeway Public Golf Course includes surface and structure viaduct. Due to the likely unstable nature of the waste material it is estimated that a two-metre thickness of waste would need to be excavated over an area of approximately 18,500 m² (37,000 m³) before the placement of fill (refer to **Figure 11 – Annexure A**). To provide some indication of the possible volumes of each waste category to be managed, the following assumptions have been made:

- 50 per cent of the spoil is categorised as PIW (18,500 m³⁾
- 100 per cent of the PIW is classified as Category C (18,500 m³).

The assumptions are by necessity conservative, based on the lack of analytical data available. They assume the spoil would be impacted to some extent by landfilling material and possibly by some backfilling with locally sourced soil derived from the Silurian siltstone. As discussed earlier, this siltstone material has been classified as Category C or Fill Material elsewhere along the North East Link alignment.

The estimates of PIW and potential for putrescible and or C&D waste (including ACM) would need to be verified by soil sampling on-site.

4.1.4 Project spoil categorisation summary

Based on the discussion above, the indicative in-situ spoil volumes for North East Link are summarised in Table 4-2.

Table 4-2 Indicative spoil categorisation estimates (m³ in situ)

Location	Estimated in situ volumes (m³)					
	Fill	Cat A	Cat B	Cat C	Total PIW	Sub Total
M80 Ring Road to northern portal	2,120,000	-	3,000	32,000	35,000	2,155,000
Greensborough landfill	12,850		1285	11,565	12,850	25,700
Watsonia landfill (AK Lines Reserve)	4500		450	4050	4500	9,000
Watsonia railway station	84,350			8750	8,750	93,100
Yallambie Road fuel station	77,750		825	7425	8250	86,000
Northern portal to southern portal	3,111,000	5,500	11,500	137,000	154,000	3,265,000
Yallambie landfill (Borlase	158,300	-	-	35,000	35,000	193,300

Location	Estimated in situ volumes (m³)					
	Fill	Cat A	Cat B	Cat C	Total PIW	Sub Total
Reserve)						
Bulleen Industrial Precinct	774,000	5000	10,000	85,000	100,000	874,000
Former Bulleen quarry	-	-	-	-	-	-
Bulleen Park (landfill)	11,000	500	1,500	17,000	19,000	30,000
Eastern Freeway	612,000	500	1,500	66,000	68,000	680,000
Bulleen Park (landfill)	11,000	500	1,500	17,000	19,000	30,000
Former landfill at Camberwell Golf Club	N/A*	-	-	18,500	18,500	18,500
Greythorn landfill	3250	-	-	3250	3250	6500
Koonung Creek Linear Park	63,010	-	-	17,000	17,000	80,010
Former City of Camberwell landfill	N/A*	-	+	10,000	10,000	10,000
TOTALS	5,843,000	6,000	16,000	235,000	257,000	6,100,000
*N/A –no excavation is required						

In consideration of these volumes, it is noted that much of the classification of Category C for the Silurian basement rocks is based on fluoride exceeding the upper limit for Fill Material in the EPA Victoria Publication IWRG621. A number of lines of evidence suggest this material could be re-categorised to Fill Material, notably:

- The widespread occurrence of elevated fluoride throughout the North East Link alignment in the Silurian rocks
- The lack of anthropogenic fluoride sources along the alignment
- The lack of other compounds indicating Category C
- The widespread occurrence of elevated fluoride in the Silurian rocks in other project areas throughout Melbourne.

Re-classification would need to be obtained from EPA Victoria. A reduction of the volume of Category C PIW would have a significant beneficial impact on the project.

4.2 Waste acid sulfate soil

Technical report O – Contamination and soil identified the potential for waste acid sulfate soil (WASS) within:

- Quaternary aged organic rich alluvial soils, located in proximity to the Yarra River in the northern portal to southern portal element of North East Link
- Silurian aged Siltstone rock, located along the entire alignment.

The Silurian aged siltstone rock forms the basement lithology within the Melbourne region and is present either at the surface or underlying the alluvial soils.

The soil assessment undertaken and as outlined in Section 6.2.3 of Technical report O – Contamination and soil confirmed the moderately weathered to fresh Silurian aged Siltstone rock would likely be classified as a WASS and the Quaternary aged alluvial soil would also likely be classified as a WASS.

4.2.1 M80 Ring Road to northern portal

Earthworks associated with road widening, construction of viaducts and land bridges for North East Link would likely be limited to surface and footing excavations and are not expected to encounter acid sulfate soil (ASS) materials. Based on preliminary 2D geological interpretation, undertaken by the geotechnical investigation team, it is predicted that potentially acid sulfate soils would not be encountered during earthworks associated with the trench section between Elder Street and the cut and cover tunnels section.

The key activity within the M80 Ring Road to northern portal element that has the potential to encounter or activate acid sulfate soil and ASR is the installation of drilled piles. On the basis this would represent a very minor quantity, a volume estimate has not been prepared at this stage. Once all pile excavations were identified and the quality of siltstone is determined, a quantity of acid sulfate soil could be calculated.

4.2.2 Northern portal to southern portal

Based on preliminary field investigation results, it is considered likely that acid sulfate soil and acid sulfate rock (ASR) would be encountered during tunnel boring within the northern portal to southern portal project element. Preliminary field investigation undertaken to date indicated that 14 samples of Silurian aged siltstone collected taken at depths between 11.6 mbgs and 45.8 mbgs could be classified as WASS and one sample of alluvial soil collected near Bulleen Park was classified as PASS in accordance with EPA Victoria Publication 655.1-2009 *Acid Sulfate Soil and Rock*.

Based on a percentage breakdown of materials, including weathering of siltstone, a preliminary estimate of WASS volume that North East Link construction works would intersect has been calculated and is summarised in Table 4-3.

Table 4-3 WASS volume estimate (m³ in situ)

		al acid sulfate aterials	Approximate WASS volume (m³)			
Location	% Recent alluvial soil	% MW, SW, FR Siltstone	ASS	ASR	ASS/ASR (Total)	
M80 Ring Road to northern portal	0%	0%	-	-	-	
Northern portal to LPR	0%	40%	-	161,000	161,000	
- ZONE 2A	0%	70%	-	281,000	281,000	
TBM tunnel (LPR to Bridge Street) - ZONE 2B	0%	100%	-	1,185,000	1,185,000	
Manningham road /Banksia interchange - ZONE 2C	30%	33%	207,000	227,000	434,000	
Mined tunnel (under Bulleen Road and property) - ZONE 2D	0%	90%	-	139,000	139,000	
Mined tunnel to southern portal - ZONE 2E	90%	10%	387,000	43,000	430,000	
Eastern Freeway	minor	minor				
		Total	594,000	2,036,000	2,630,000	

The spoil estimate data shows that approximately 2,888,203 m³ (in-situ) of WASS may require management from this project element. This estimate is based on regional geology as well as the preliminary sampling program results.

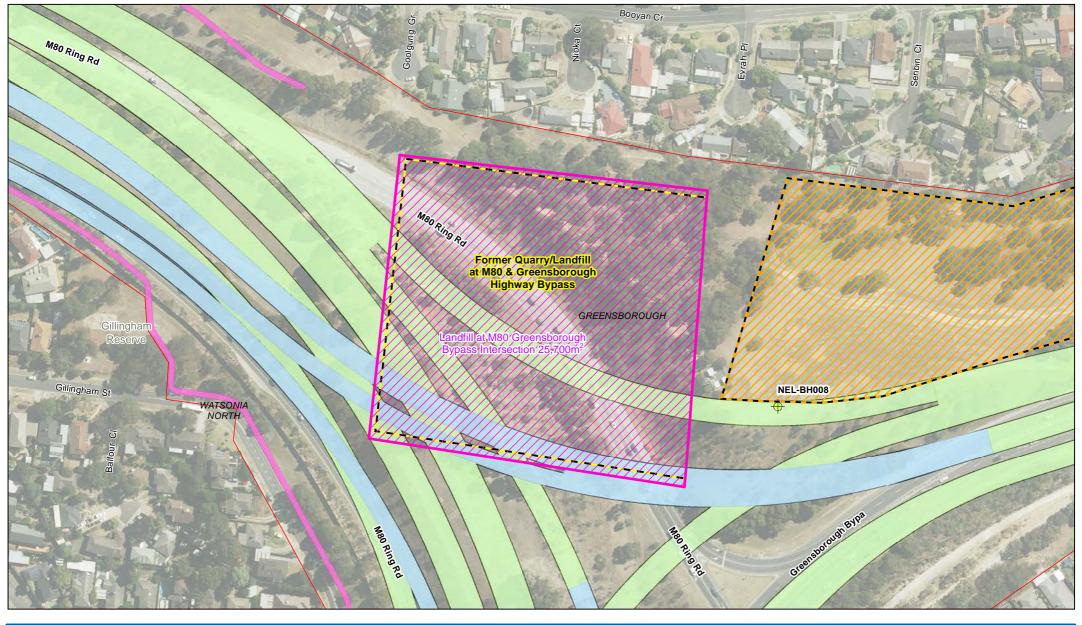
4.2.3 Eastern Freeway

The disturbance of acid sulfate soil and ASR within the Eastern Freeway project element by excavation is likely be limited. Construction of the bus lane, road widening and upgrade of interchanges are likely to be within weathered Silurian soil/rock, basaltic soils/basalt rock (Newer Volcanics Formation). It is noted the construction of the North East Link interchange at the Eastern Freeway may require removal of limited alluvial soils, which have the potential to be ASS, but the quantity of soils has not been estimated at the time of writing this report. It is expected that limited soil would require excavation/management in this area based on the largely elevated structure proposed (viaduct).

Annexures

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Annexure A – Figures





Map Projection: Transverse Mercator Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 55





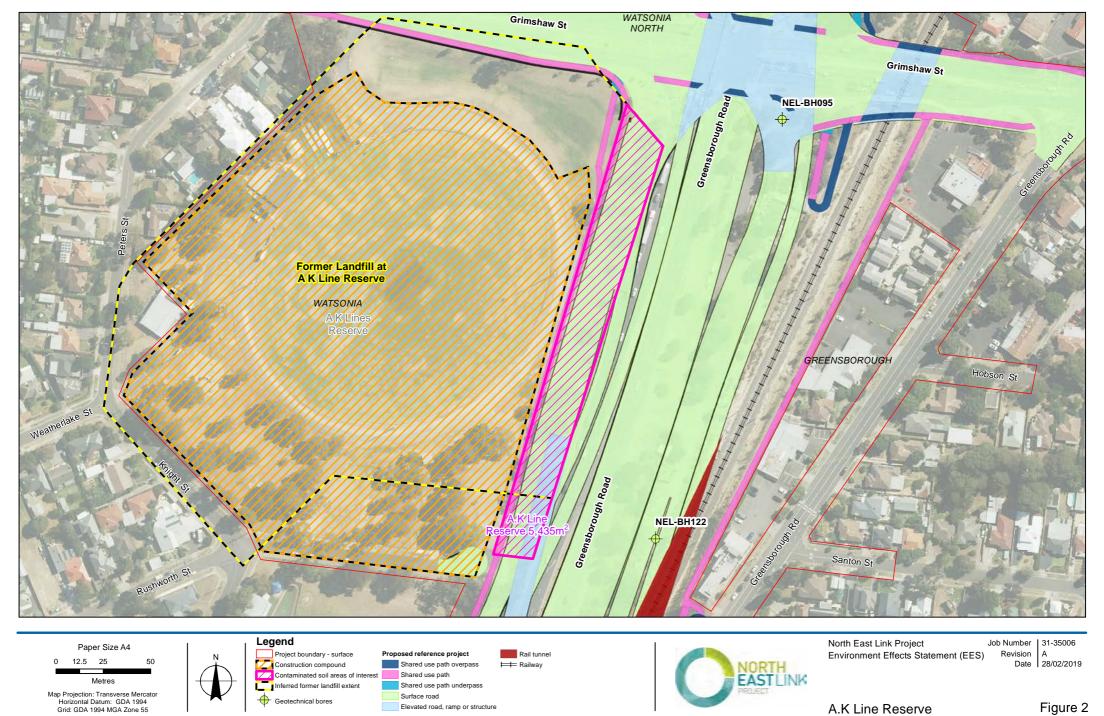


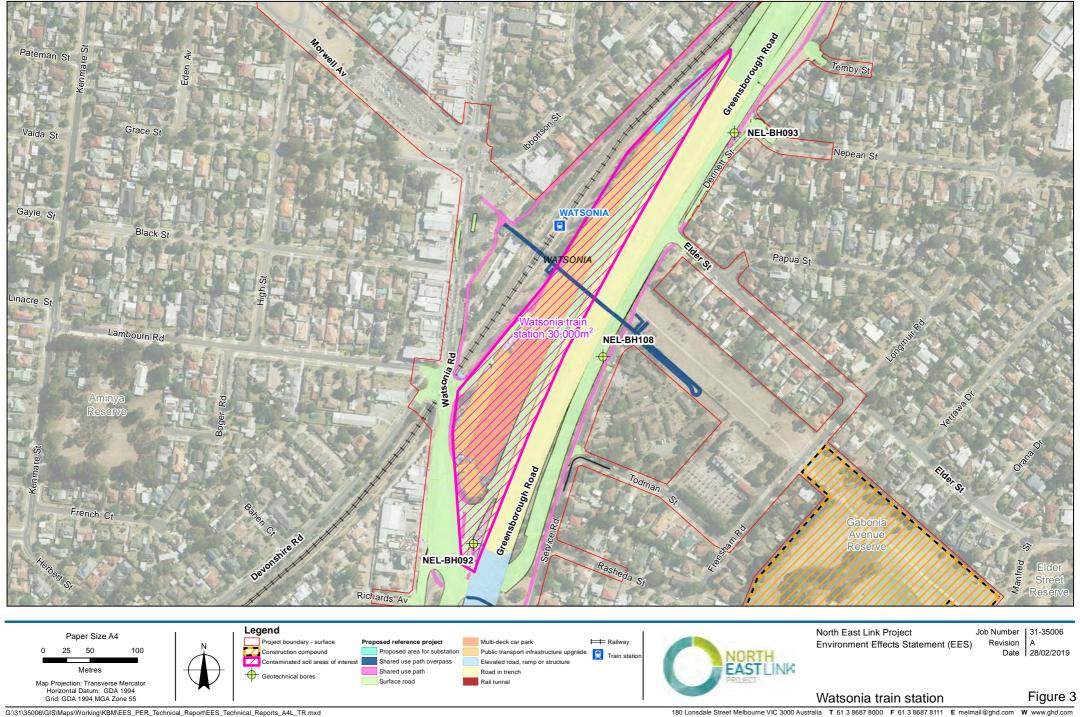
North East Link Project Environment Effects Statement (EES)

Job Number | 31-35006 Revision Date 28/02/2019

Landfill at M80 Greensborough Bypass Intersection

Figure 1









Map Projection: Transverse Mercator Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 55







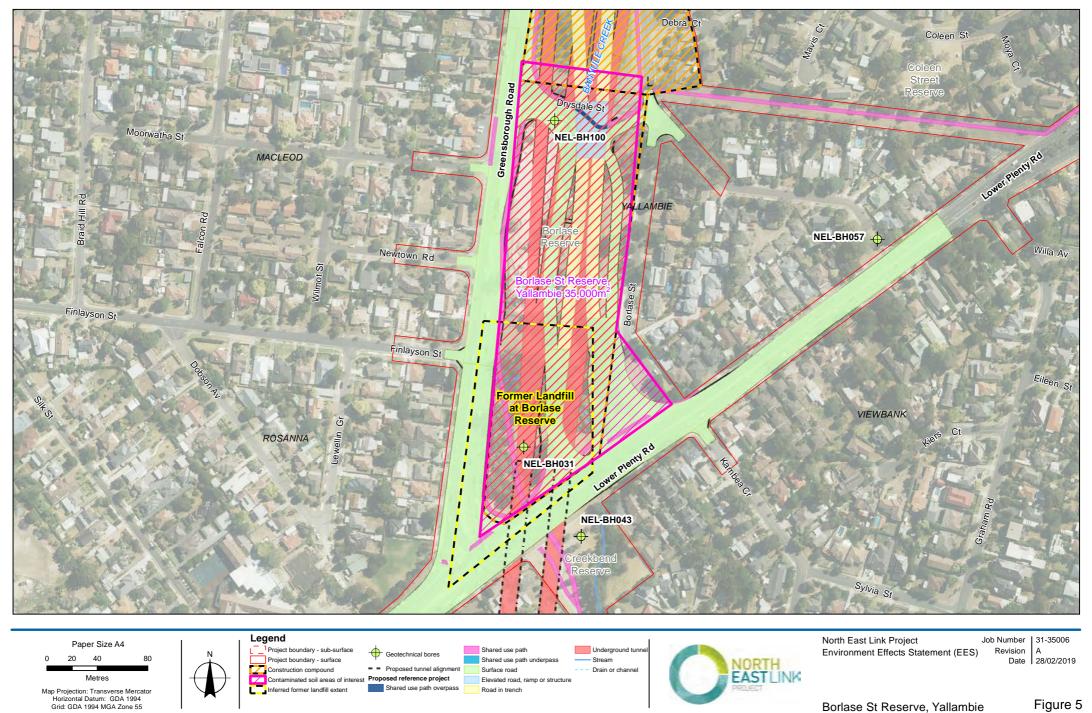
North East Link Project Environment Effects Statement (EES)

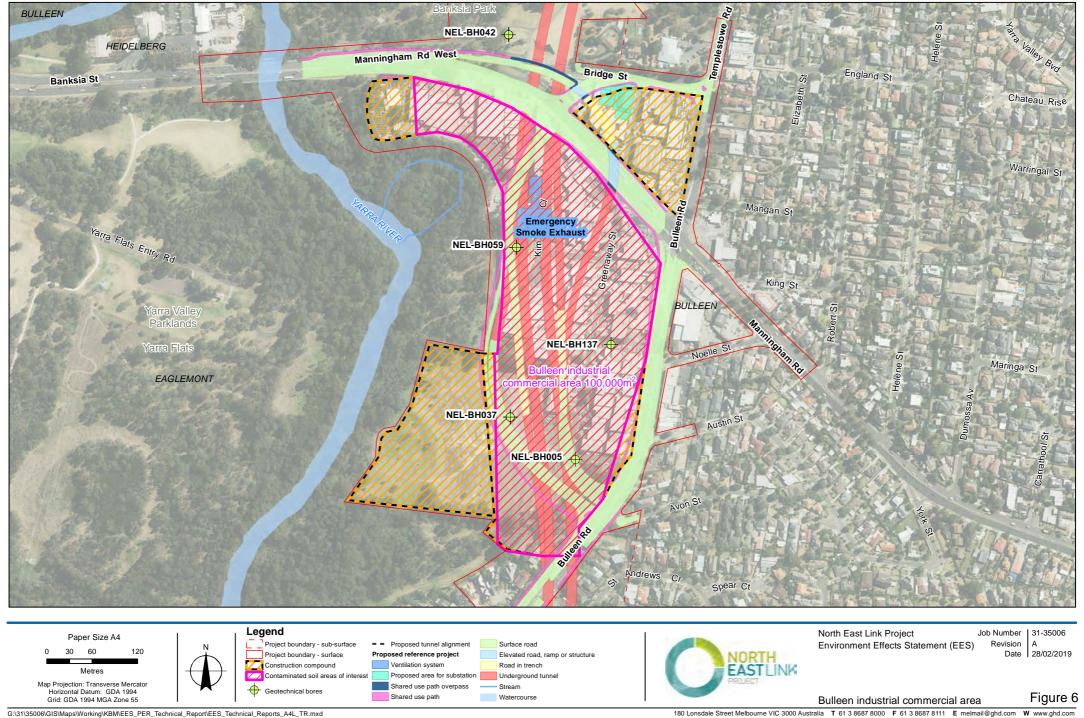
Job Number | 31-35006 Revision

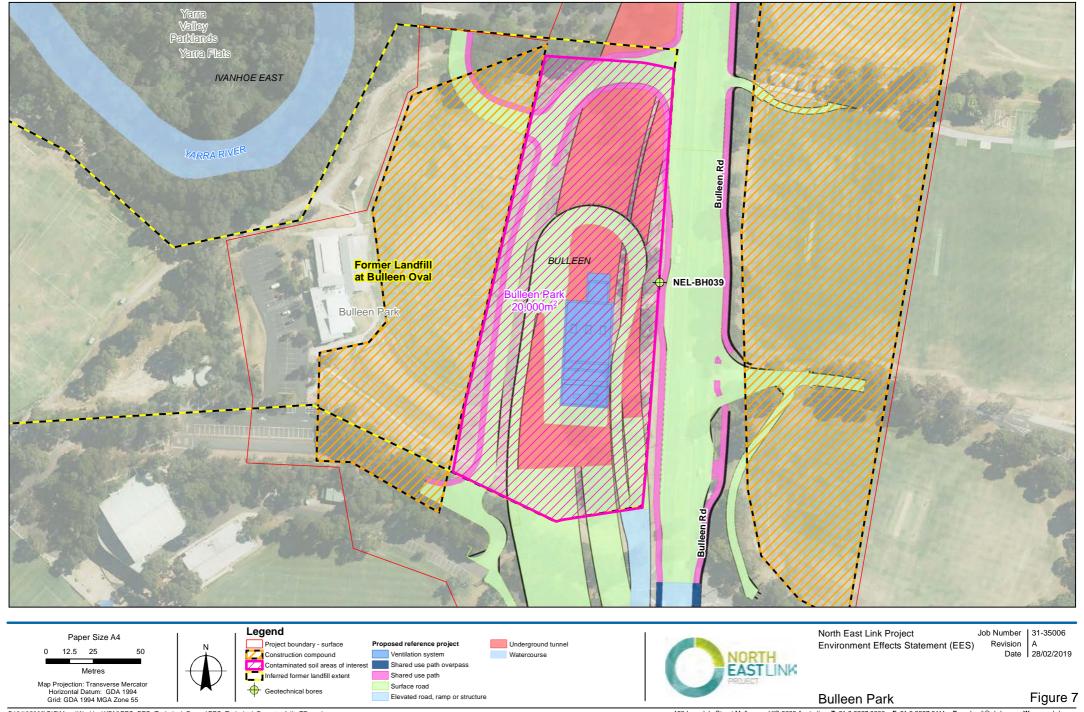
Date 28/02/2019

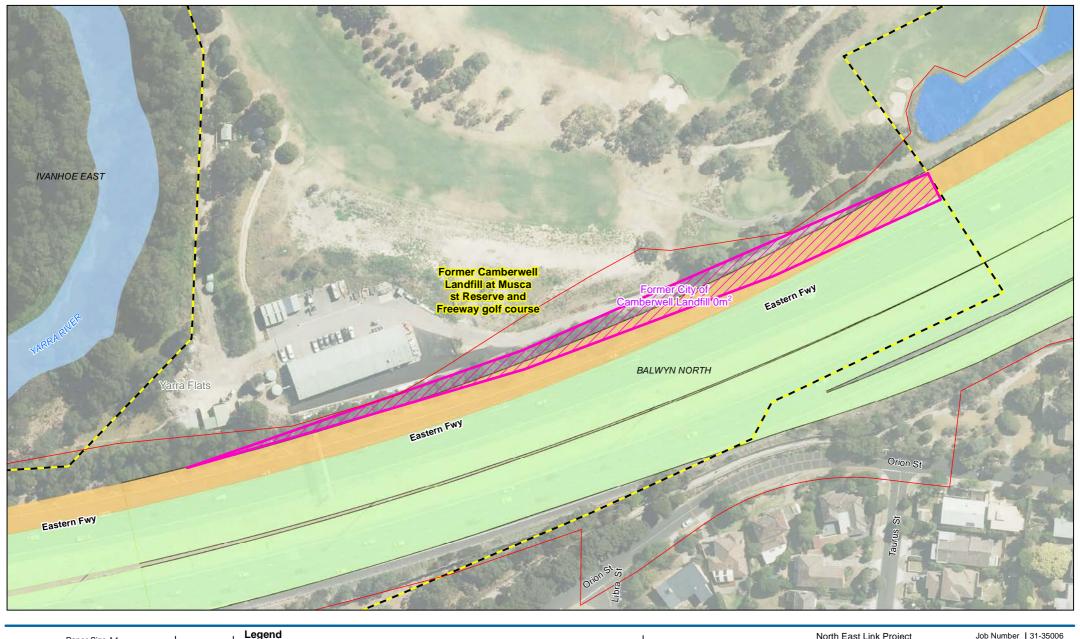
Coles Express fuel on Yallambie Rd

Figure 4











Map Projection: Transverse Mercator Horizontal Datum: GDA 1994 Grid: GDA 1994 MGA Zone 55







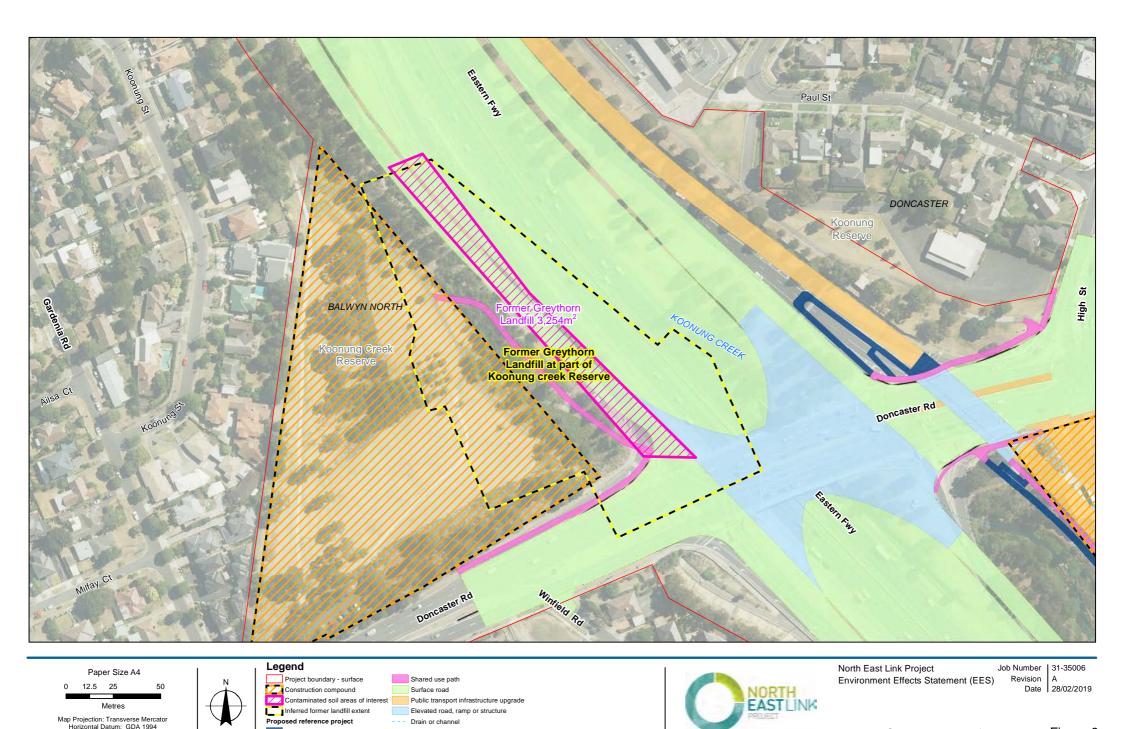
North East Link Project
Environment Effects Statement (EES)

Job Number Revision

evision A 28/02/2019

Former City of Camberwell Landfill

Figure 8

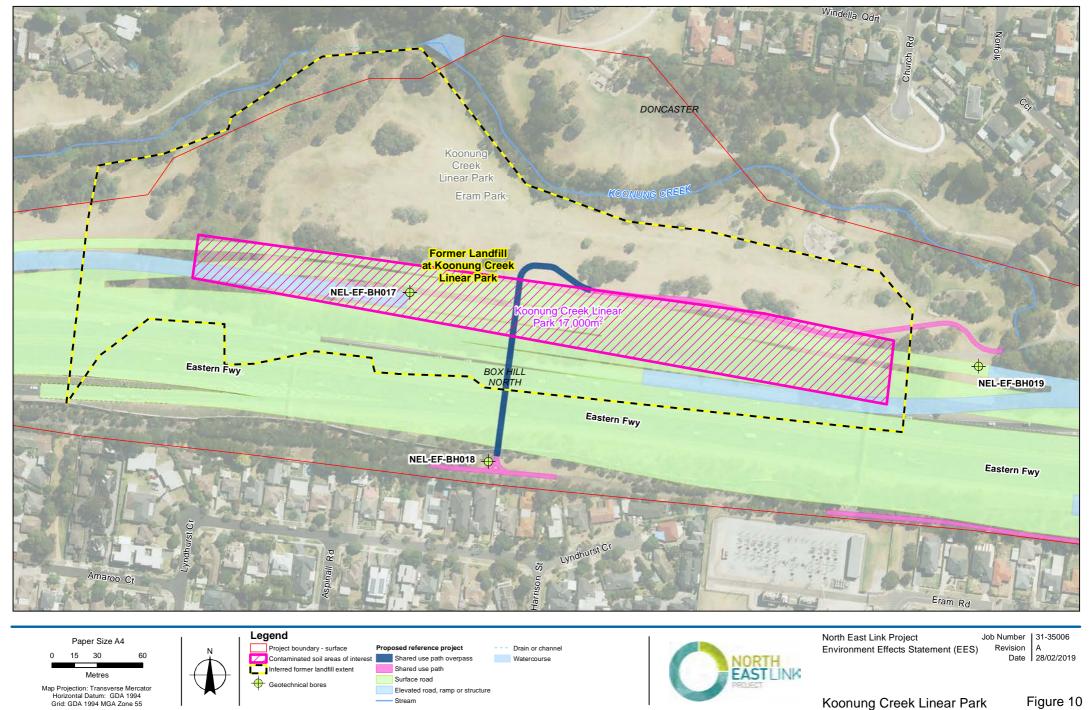


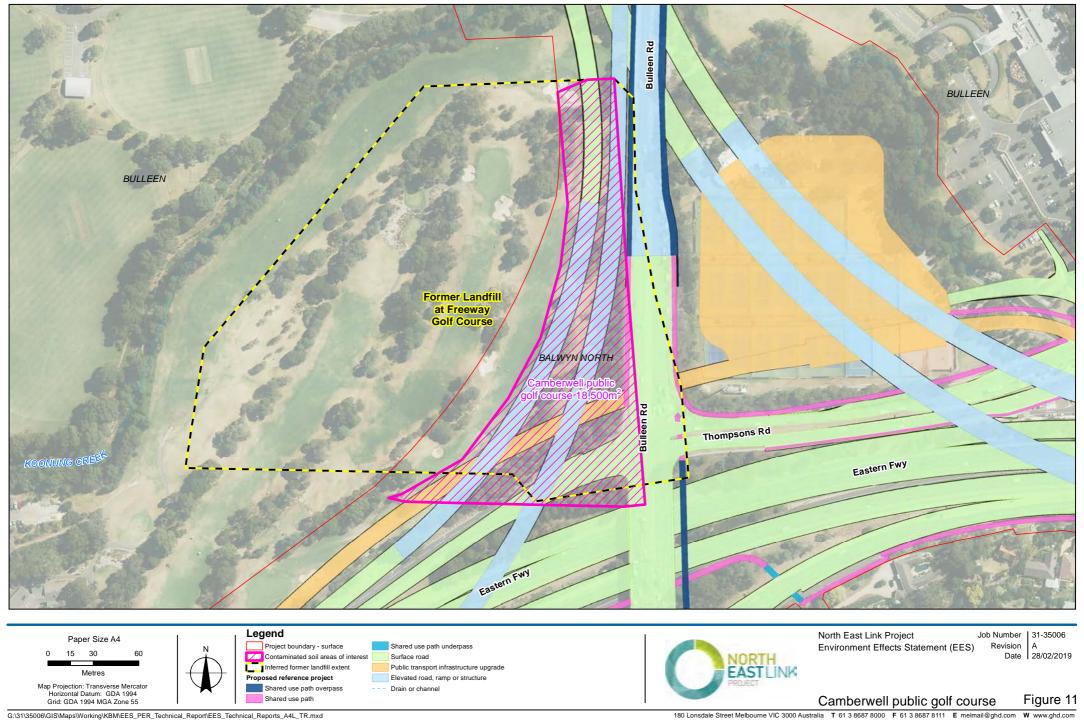
Grid: GDA 1994 MGA Zone 55

Former Greythorn Landfill

Figure 9

Shared use path overpass





Annexure B – Material types

NEL

Geological material percentage estimates

Note:

Approximate only

Based on current version of geological model which is subject to change

Assessed by visual methods on a 2D plane only

Where fill volumes are to be estimated, the fill should take the place of either the soil or the HW or worse rock

Chainage						
From	То	Soil (Quaternary alluvium - PASS)	Soil (weathered rock - RS,XW, HW)	Rock (MW, SW of Fresh) - possible acid sulfate rock	FILL	Notes
Start	43000	0	100	0	TBC	Above grade mostly
43000	43300	0	60	40	TBC	Greensborough Highway cutting/cut and cover
43300	43600	0	30	70	TBC	Greensborough Highway cutting/cut and cover
43600	46900	0	0	100	TBC	TBM tunnel
46900	47200	100	0	0	TBC	Manningham interchange
47200	47700	0	10	90	TBC	Mined tunnel
47700	48400	90	0	10	TBC	Bulleen Road cutting/cut and cover
48400	onwards	TBC	TBC	TBC	TBC	mostly foundation excavations only

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Appendix N – Risk assessment

		E. 1	Initial Risk Rating									Residual R	lisk Rating				
		Environmental Performance	Magnitude of consequence						Environmental	Magnitude of consequence							
Risk ID	Potential impact pathway	Requirements (EPRs)	Extent	Severity	Duration	Overall Consequence	Likelihood	Risk Level	Reasoning	Performance Requirements (EPRs)	Extent	Severity	Duration	Overall Consequence	Likelihood	Risk Level	Reasoning
Risk CT01	Earthworks requiring excavation, stockpiling, transport and treatment/disposal of contaminated soil causes impacts to human health (via direct contact and vapour inhalation) and the environment	EPR CL1 Implement a Spoil Management Plan	Local	Medium	3 months to 2 years	Minor	Likely	Medium	Impacts to human health (via direct contact and vapour/dust inhalation) and the environment	EPR CL1 Implement a Spoil Management Plan	Local	Medium	3 months to 2 years	Minor	Possible	Low	SMP designed to reduce the likelihood of an impact
Risk CT02	Earthworks requiring excavation, stockpiling, transport and treatment/disposal of acid sulfate soil and rock causes impacts to human health (via direct contact and vapour inhalation) and the environment	EPR CL2 Minimise impacts from disturbance of acid sulfate soil	Corrido r	Medium	2–7 years	Moderate	Possible	Medium	Impacts to human health (via direct contact and vapour/dust inhalation) and the environment	EPR CL2 Minimise impacts from disturbance of acid sulfate soil	Corridor	Medium	2–7 years	Moderate	Unlikely	Low	Acid Sulfate Plan designed to reduce the likelihood of an impact
Risk CT03	Encountering asbestos-containing materials that had not been assessed and identified prior to/during excavation results in adverse health (via direct contact and vapour inhalation) and the environment impacts	EPR CL1 Implement a Spoil Management Plan	Local	High	3 months to 2 years	Moderate	Possible	Medium	Adverse health impacts via direct contact and vapour inhalation	EPR CL1 Implement a Spoil Management Plan	Local	High	3 months to 2 years	Moderate	Unlikely	Low	SMP designed to reduce the likelihood of an impact
Risk CT04	Encountering waste materials containing hazardous substances in former landfill(s) and/or uncontrolled fill site(s) (known or unknown) causes impacts to human health	EPR CL1 Implement a Spoil Management Plan	Local	High	3 months to 2 years	Moderate	Possible	Medium	Impacts to human health (via direct contact and vapour/dust inhalation) and the environment	EPR CL1 Implement a Spoil Management Plan	Local	High	3 months to 2 years	Minor	Possible	Low	SMP designed to reduce the consequence of an impact an occurrence
Risk CT05	Excavation of contaminated soil generates offensive odour causing impacts to human health and loss of amenity to sensitive receptors	EPR CL3 Minimise odour impacts during spoil management	Local	Low	3 months to 2 years	Minor	Possible	Low	Impacts to human health and loss of amenity to sensitive receptors	EPR CL3 Minimise odour impacts during spoil management	Local	Low	3 months to 2 years	Minor	Possible	Low	Low initial risk

	5	Environmental	Initial Risk Rating							Residual Risk Rating							
Dist.		Performance	Magnitude of consequence		equence					Environmental	Magnitude of consequence				D'al		
Risk ID	Potential impact pathway	Requirements (EPRs)	Extent	Severity	Duration	Overall Consequence	Likelihood	Risk Level	Reasoning	Performance Requirements (EPRs)	Extent	Severity	Duration	Overall Consequence	Likelihood	Risk Level	Reasoning
Risk CT06	Earthworks leading to movement of underground gases that have the potential to build up in enclosed spaces and present a public safety risk		Local	High	3 months to 2 years	Moderate	Unlikely	Low	Potential to build in enclosed spaces and present a public safety risk	EPR CL4 Minimise risks from vapour and ground gas intrusion	Local	High	3 months to 2 years	Moderate	Rare	Low	Low initial risk
Risk CT07	Spills and leaks from construction equipment causes contamination of soil leading to impacts to public health and the environment	EPR CL5 Manage chemicals, fuels and hazardous materials	Local	Very low	3 months to 2 years	Negligible	Likely	Low	Contamination of soil leading to impacts to public health and the environment	EPR CL5 Manage chemicals, fuels and hazardous materials	Local	Very low	3 months to 2 years	Negligible	Likely	Low	Low initial risk
Risk CT08	Abstraction of groundwater causes migration of contamination onto sites that otherwise may not have been impacted, resulting in soil impact off site and causes an impact to human health and the environment	changes to groundwater levels through tunnel and trench	Municip ality	Medium	7+ years	Moderate	Possible	Medium	Resulting in groundwater impact off site, possible vapour inhalation risk	EPR GW3 Minimise changes to groundwater levels through tunnel and trench drainage design and construction methods EPR GW4 Implement a Groundwater Management Plan to Protect groundwater quality and manage groundwater interception	Municipal ity	Medium	7+ years	Moderate	Unlikely	Low	EPRs designed to reduce the likelihood of an impact
Risk CT09	Underground construction causes migration of hazardous vapours, ground gases and/or dissolved methane and causes an impact to human health and the environment	EPR CL3 Minimise odour impacts during spoil management	Municip ality	Medium	7+ years	Moderate	Possible	Medium	Impact to human health via inhalation and the environment	EPR CL3 Minimise odour impacts during spoil management EPR CL4 Minimise risks from vapour and ground gas intrusion EPR CL6 Minimise contamination risks during operation	Municipal ity	Medium	7+ years	Moderate	Unlikely	Low	EPRs designed to reduce the likelihood of an impact

		Environmental	Initial Risk Rating							Residual Risk Rating							
Risk	Potential impact	Performance Requirements	Magnitude of consequ		equence	- Overall				Environmental Performance	Magnitude of consequence		quence	Overall		Risk	
ID	pathway	(EPRs)	Extent	Severity	Duration	Consequence	Likelihood	Risk Level	Reasoning	Requirements (EPRs)	Extent	Severity	Duration	Consequence	Likelihood	Level	Reasoning
Risk CT10	Disturbance of contaminated soil in long-term stockpile or disturbance of contamination that remains in situ, notably within landfills, causes impacts to human health (via direct contact and inhalation) and the environment	EPR CL1 Implement a Spoil Management Plan	Local	Low	7+ years	Minor	Possible	Low	Impacts to human health (via direct contact and inhalation) and the environment	EPR CL1 Implement a Spoil Management Plan EPR CL6 Minimise contamination risks during operation	Local	Low	7+ years	Minor	Possible	Low	Low initial risk
Risk CT11	Ongoing abstraction of groundwater causes migration of contamination onto sites that otherwise may not have been impacted, resulting in soil contamination off site and causes an impact to human health and the environment	EPR GW3 Minimise changes to groundwater levels through tunnel and trench drainage design and construction methods EPR GW4 Implement a Groundwater Management Plan to Protect groundwater quality and manage groundwater interception	Municip ality	Medium	7+ years	Moderate	Possible	Medium	Groundwater impact off site and causes an impact to human health and the environment	EPR GW3 Minimise changes to groundwater levels through tunnel and trench drainage design and construction methods EPR GW4 Implement a Groundwater Management Plan to Protect groundwater quality and manage groundwater interception EPR GW5 Manage groundwater during operation	Municipal ity	Low	7+ years	Moderate	Unlikely	Low	EPRs designed to reduce the likelihood of an impact
Risk CT12	Ongoing abstraction of groundwater causes migration of hazardous vapours, ground gases and/or dissolved methane and causes an impact to human health and the environment	EPR CL6 Minimise contamination risks during operation EPR GW5 Manage groundwater during operation	Local	Low	7+ years	Minor	Possible	Low	Impact to human health of local residents and loss of amenity to sensitive receptors	EPR CL4 Minimise risks from vapour and ground gas intrusion EPR CL6 Minimise contamination risks during operation EPR GW5 Manage groundwater during operation	Local	Low	7+ years	Moderate	Unlikely	Low	Low initial risk

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