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 SC Mineral Resources Pty Ltd
EPL No.: 4784

EPA Identification no.	Monitoring Frequency	Pollutant		Unit	Comments
1 (W14)	Quarterly	Conductivity	9722	µS/cm	<p>The Q1 2019 water monitoring results for W14 bore are in line with historical water quality results. There is an increase (+39cm) in the relative standing water level from the previous quarter which was 263.87m. The conductivity increased (+735µS/cm) from last quarter which recorded 8987µS/cm and copper concentration remained the same as the last reporting period, which was 0.01mg/L. Replacement of faulty pH sensor resulted in a significant pH decrease (-1.19) from the previously recorded 8.27, however recorded value remains consistent with long-term data. All other variances in monitoring parameters are homogenous with previous reporting periods.</p>
	Quarterly	Copper	0.01	mg/L	
	Quarterly	pH	7.08		
	Quarterly	Standing Water Level	264.26	m	
	Yearly	Aluminum	0.03	mg/L	
	Yearly	Arsenic	0.001	mg/L	
	Yearly	Barium	0.014	mg/L	
	Yearly	Beryllium	<0.001	mg/L	
	Yearly	Bicarbonate	394	mg/L	
	Yearly	Cadmium	0.0002	mg/L	
	Yearly	Calcium	188	mg/L	
	Yearly	Chloride	2460	mg/L	
	Yearly	Chromium	0.001	mg/L	
	Yearly	Cobalt	0.001	mg/L	
	Yearly	Lead	0.002	mg/L	
	Yearly	Magnesium	273	mg/L	
	Yearly	Molybdenum	0.01	mg/L	
	Yearly	Nickel	0.001	mg/L	
	Yearly	Potassium	4	mg/L	
	Yearly	Selenium	0.02	mg/L	
Yearly	Sodium	1420	mg/L		
Yearly	Sulfate	1240	mg/L		
Yearly	Total dissolved solids	5120	mg/L		
Yearly	Zinc	0.053	mg/L		

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2 (W19)	Quarterly	Conductivity	6634	µS/cm	<p>The Q1 2019 water monitoring results for W19 bore are in line with historical water quality results. There is an increase (+64cm) in the relative standing water level from previous quarter which was 245.74m. The conductivity increased (+897µS/cm) from last quarter which recorded 5735µS/cm and copper concentration remained the same as the previous reporting period, recording 0.014mg/L. Replacement of faulty pH sensor resulted in a significant pH decrease (-1.10) from the previously recorded 8.48, however recorded value remains consistent with long-term data. All other variances in monitoring parameters are homogenous with previous reporting periods.</p>
	Quarterly	Copper	0.014	mg/L	
	Quarterly	pH	7.38		
	Quarterly	Standing Water Level	246.38	m	
	Yearly	Aluminum	0.02	mg/L	
	Yearly	Arsenic	0.001	mg/L	
	Yearly	Barium	0.138	mg/L	
	Yearly	Berylium	<0.001	mg/L	
	Yearly	Bicarbonate	184	mg/L	
	Yearly	Cadmium	0.0001	mg/L	
	Yearly	Calcium	452	mg/L	
	Yearly	Chloride	589	mg/L	
	Yearly	Chromium	0.004	mg/L	
	Yearly	Cobalt	0.001	mg/L	
	Yearly	Lead	0.001	mg/L	
	Yearly	Magnesium	112	mg/L	
	Yearly	Molybdenum	0.005	mg/L	
	Yearly	Nickel	0.001	mg/L	
	Yearly	Potassium	7	mg/L	
	Yearly	Selenium	0.01	mg/L	
Yearly	Sodium	712	mg/L		
Yearly	Sulfate	589	mg/L		
Yearly	Total dissolved solids	5160	mg/L		
Yearly	Zinc	0.053	mg/L		

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3 (W21)	Quarterly	Conductivity	15832	µS/cm	The Q1 2019 water monitoring results for W21 bore are in line with historical water quality results. There is an increase (+9cm) in the relative standing water level from previous quarter which was 268.21m. Conductivity increased (+2300µS/cm) from last quarter which recorded 13532µS/cm, as did copper concentration, slightly increasing 0.007mg/L from the last reporting period, which recorded 0.0012 mg/L. The pH decreased (-0.52) from last quarter which was 11.19. These minor variances are typically the result of natural groundwater migrations and are homogenous with previous reporting periods.
	Quarterly	Copper	0.019	mg/L	
	Quarterly	pH	10.67		
	Quarterly	Standing Water Level	268.3	m	
	Yearly	Aluminum	0.1	mg/L	
	Yearly	Arsenic	0.001	mg/L	
	Yearly	Barium	0.092	mg/L	
	Yearly	Berylium	<0.001	mg/L	
	Yearly	Bicarbonate	<1	mg/L	
	Yearly	Cadmium	0.0001	mg/L	
	Yearly	Calcium	950	mg/L	
	Yearly	Chloride	4880	mg/L	
	Yearly	Chromium	0.001	mg/L	
	Yearly	Cobalt	0.001	mg/L	
	Yearly	Lead	0.002	mg/L	
	Yearly	Magnesium	3	mg/L	
	Yearly	Molybdenum	0.029	mg/L	
	Yearly	Nickel	0.001	mg/L	
	Yearly	Potassium	32	mg/L	
	Yearly	Selenium	0.01	mg/L	
Yearly	Sodium	2080	mg/L		
Yearly	Sulfate	844	mg/L		
Yearly	Total dissolved solids	10300	mg/L		
Yearly	Zinc	0.043	mg/L		

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4 (W23)	Quarterly	Conductivity	21317	µS/cm	The Q1 2019 water monitoring results for W23 bore are in line with historical water quality results. There is an increase (+42cm) in the relative standing water level from the previous quarter which was 258.48m. The conductivity increased (+3797µS/cm) from the last quarter which recorded 17520µS/cm. Copper concentration decreased (-0.179mg/L) from the last reporting period, which was 0.237 mg/L. Replacement of faulty pH sensor resulted in a significant pH decrease (-1.57) from the previously recorded 8.40, however recorded value remains consistent with long-term data. All other variances in monitoring parameters are homogenous with previous reporting periods.
	Quarterly	Copper	0.058	mg/L	
	Quarterly	pH	6.83		
	Quarterly	Standing Water Level	258.9	m	
	Yearly	Aluminum	0.05	mg/L	
	Yearly	Arsenic	0.001	mg/L	
	Yearly	Barium	0.04	mg/L	
	Yearly	Beryllium	<0.001	mg/L	
	Yearly	Bicarbonate	360	mg/L	
	Yearly	Cadmium	0.0003	mg/L	
	Yearly	Calcium	484	mg/L	
	Yearly	Chloride	6460	mg/L	
	Yearly	Chromium	0.001	mg/L	
	Yearly	Cobalt	0.291	mg/L	
	Yearly	Lead	0.001	mg/L	
	Yearly	Magnesium	707	mg/L	
	Yearly	Molybdenum	0.005	mg/L	
	Yearly	Nickel	0.001	mg/L	
	Yearly	Potassium	7	mg/L	
	Yearly	Selenium	0.02	mg/L	
Yearly	Sodium	2850	mg/L		
Yearly	Sulfate	1900	mg/L		
Yearly	Total dissolved solids	14200	mg/L		
Yearly	Zinc	0.262	mg/L		

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5 (W25)	Quarterly	Conductivity	1614	µS/cm	The Q1 2019 water monitoring results for W25 bore are in line with historical water quality results. There was a decrease (-18cm) in the relative standing water level from previous quarter which was 282.93m. The conductivity increased (+374µS/cm) from last quarter which recorded 1240µS/cm. Copper concentration slightly decreased (-0.003mg/L) from the last reporting period, which was 0.022mg/L. Replacement of faulty pH sensor resulted in a significant pH decrease (-1.85) from the previously recorded 9.75, however recorded value remains consistent with long-term data. All other variances in monitoring parameters are homogenous with previous reporting periods.
	Quarterly	Copper	0.019	mg/L	
	Quarterly	pH	7.90		
	Quarterly	Standing Water Level	282.75	m	
	Yearly	Aluminum	0.06	mg/L	
	Yearly	Arsenic	<0.001	mg/L	
	Yearly	Barium	0.011	mg/L	
	Yearly	Beryllium	<0.001	mg/L	
	Yearly	Bicarbonate	163	mg/L	
	Yearly	Cadmium	0.0001	mg/L	
	Yearly	Calcium	78	mg/L	
	Yearly	Chloride	41	mg/L	
	Yearly	Chromium	0.001	mg/L	
	Yearly	Cobalt	<0.001	mg/L	
	Yearly	Lead	0.001	mg/L	
	Yearly	Magnesium	60	mg/L	
	Yearly	Molybdenum	0.001	mg/L	
	Yearly	Nickel	0.001	mg/L	
	Yearly	Potassium	3	mg/L	
	Yearly	Selenium	0.02	mg/L	
Yearly	Sodium	151	mg/L		
Yearly	Sulfate	512	mg/L		
Yearly	Total dissolved solids	1040	mg/L		
Yearly	Zinc	0.065	mg/L		

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6 (W20)	Quarterly	Conductivity	15605	µS/cm	The Q1 2019 water monitoring results for W20 bore are in line with historical water quality results. There is an increase (+20cm) in the relative standing water level from the previous quarter which was 265.91m. The conductivity increased (+1818µS/cm) from last quarter which recorded 13787µS/cm. Copper concentration decreased slightly (-0.002mg/L) from the last reporting period, which was 0.01 mg/L. Replacement of faulty pH sensor resulted in a significant pH decrease (-1.17) from the previously recorded 8.06, however recorded value remains consistent with long-term data. All other variances in monitoring parameters are homogenous with previous reporting periods.
	Quarterly	Copper	0.008	mg/L	
	Quarterly	pH	6.89		
	Quarterly	Standing Water Level	266.11	m	
	Yearly	Aluminum	0.03	mg/L	
	Yearly	Arsenic	0.001	mg/L	
	Yearly	Barium	0.011	mg/L	
	Yearly	Beryllium	<0.001	mg/L	
	Yearly	Bicarbonate	422	mg/L	
	Yearly	Cadmium	0.0003	mg/L	
	Yearly	Calcium	348	mg/L	
	Yearly	Chloride	4560	mg/L	
	Yearly	Chromium	0.001	mg/L	
	Yearly	Cobalt	0.003	mg/L	
	Yearly	Lead	0.001	mg/L	
	Yearly	Magnesium	377	mg/L	
	Yearly	Molybdenum	0.002	mg/L	
	Yearly	Nickel	0.001	mg/L	
	Yearly	Potassium	8	mg/L	
	Yearly	Selenium	0.01	mg/L	
Yearly	Sodium	2230	mg/L		
Yearly	Sulfate	1460	mg/L		
Yearly	Total dissolved solids	9520	mg/L		
Yearly	Zinc	0.088	mg/L		