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| Monitoring_Zone | Field_ID | Well | Sampled_Date_Time | UNIT | LOR | Physio-Chemical Parameters | | Total Petroleum Hydrocarbons | | Total Recoverable Hydrocarbons | | Total BTEX | Aluminium (Filtered) | Arsenic (Filtered) | Boron (Filtered) | Cadmium (Filtered) | Chromium | Cobalt | Copper (Filtered) | Iron (Filtered) | Lead (Filtered) | Manganese | Mercury | Molybdenum | Nickel (Filtered) | Selenium | Silver | Uranium | Vanadium | Zinc | Physico-Chemical Parameters | | | | | Major Ions | | | | |
|---------------------|----------------|------|-------------------|------|-----|----------------------------|----------|------------------------------|-----------------|--------------------------------|--------|------------|----------------------|--------------------|------------------|--------------------|----------|-------------|-------------------|-----------------|-----------------|-----------|---------|------------|-------------------|----------|--------|---------|--------------|--------------|-----------------------------|------|------|------|------|------------|----------|------|------|------|
| | | | | | | Total Dissolved Solids | pH (Lab) | C6-C9 fraction | C8-C10 fraction | >C10-C40 fraction (sum) | mg/L | | | | | | | | | | | | | | | | | | | | mg/L | mg/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L |
| Alluvium Western Aa | HD03B_HD03B | | 20/05/2013 | | | 608 | 7.53 <20 | <20 | <100 | <1 | <0.01 | <0.001 | <0.001 | 0.15 <0.001 | <0.001 | <1 | 0.001 | 0.53 <0.001 | 0.157 <0.0001 | <1 | <0.001 | <10 | <1 | <1 | <10 | 0.015 | 839 | 141 | 0.14 <0.01 | <0.01 | 0.21 | 192 | 2 | 0.4 | 2 | 16 | 178 <0.1 | 13 | | |
| Alluvium Western Aa | HD03B_2C_HD03B | | 7/05/2014 | | | 584 | 7.35 <20 | <20 | <100 | <1 | <0.01 | <0.001 | <0.001 | 0.16 <0.0001 | <0.001 | <1 | <0.001 | 0.64 <0.001 | 0.209 <0.0001 | <1 | <0.001 | <10 | <1 | <1 | <10 | 0.01 | 898 | 144 | - | - | 0.19 | 200 | 2 | 0.4 | 3 | 16 | 176 <0.1 | 14 | | |
| Alluvium Western Aa | HD03B_2C_HD03B | | 27/05/2014 | | | 602 | 7.82 <20 | <20 | <100 | <1 | <0.01 | <0.001 | <0.001 | 0.16 <0.0001 | <0.001 | <1 | <0.001 | 0.53 <0.001 | 0.176 <0.0001 | <1 | <0.001 | <10 | <1 | <1 | <10 | 0.019 | 826 | 147 | - | - | 0.14 | 193 | 2 | 0.4 | 3 | 19 | 182 | 0.1 | 13 | |
| Alluvium Western Aa | HD03B_HD03B | | 1/08/2014 | | | 530 | 7.8 <40 | <50 | <400 | <3 | <0.005 | <0.003 | <0.001 | 0.16 <0.0001 | <0.001 | <1 | <0.001 | 0.34 <0.001 | 0.19 <0.0001 | <1 | <0.001 | <3 | <0.05 | <0.5 | <5 | <0.005 | 880 | 140 | 0.12 <0.005 | <0.005 | 0.11 | 180 | 2 | 0.4 | 2.5 | 20 | 140 | 0.1 | 12 | |
| Alluvium Western Aa | HD03B_06_HD03B | | 25/09/2014 | | | 530 | 7.8 <40 | <50 | <650 | <3 | <0.005 | <0.003 | <0.001 | 0.15 <0.0001 | <0.001 | <1 | <0.001 | 0.21 <0.001 | 0.18 <0.00005 | <1 | <0.001 | <3 | <0.05 | <0.5 | <5 | <0.005 | 880 | 140 | 0.11 <0.005 | <0.005 | 0.14 | 170 | 1.8 | 0.5 | 2.5 | 21 | 140 <0.5 | 13 | | |
| Alluvium Western Aa | HD03B_2C_HD03B | | 19/11/2014 | | | 520 | 7.8 <40 | <50 | <400 | <3 | <0.005 | <0.003 | <0.001 | 0.17 <0.0001 | <0.001 | <1 | <0.001 | 0.38 <0.001 | 0.24 <0.00005 | <1 | <0.001 | <3 | <0.05 | <0.5 | <5 | <0.005 | 860 | 140 | 0.13 <0.005 | <0.005 | 0.14 | 170 | 2.3 | 0.4 | 2.5 | 20 | 140 <0.5 | 13 | | |
| Alluvium Western Aa | HD03B_2C_HD03B | | 6/02/2015 | | | 540 | 7.6 <40 | <50 | <400 | <3 | <0.005 | <0.003 | <0.001 | 0.17 <0.0001 | <0.001 | <1 | <0.001 | 0.47 <0.001 | 0.2 <0.00005 | <1 | <0.001 | <3 | <0.05 | <0.5 | <5 | <0.005 | 900 | 140 | 0.1 <0.005 | <0.005 | 0.13 | 180 | 2.1 | 0.4 | 2.7 | 22 | 170 <0.5 | 13 | | |
| Alluvium Western Aa | HD03B_2C_HD03B | | 25/03/2015 | | | 520 | 7.7 <40 | <50 | <400 | <3 | <0.005 | <0.003 | <0.001 | 0.16 <0.0001 | <0.001 | <1 | <0.001 | 0.46 <0.001 | 0.2 <0.00005 | <1 | <0.001 | <3 | <0.05 | <0.5 | <5 | <0.005 | 860 | 140 | 0.12 <0.005 | <0.005 | 0.1 | 180 | 1.9 | 0.4 | 2.5 | 19 | 150 <0.5 | 13 | | |
| Alluvium Western Aa | HD03B_2C_HD03B | | 26/05/2015 | | | 500 | 7.7 <10 | - | - | - | <0.005 | <0.001 | <0.001 | 0.15 <0.0001 | <0.001 | <1 | <0.001 | 0.3 <0.001 | 0.17 <0.0001 | <1 | <0.001 | <3 | <0.05 | <1 | <5 | <0.005 | 840 | 150 | 0.12 <0.005 | <0.005 | 0.13 | 180 | 1.8 | 0.5 | 2.5 | 20 | 140 <0.5 | 12 | | |
| Alluvium Western Aa | HD03B_2C | | 24/07/2015 | | | 520 | 7.7 <10 | - | - | - | <0.005 | <0.001 | <0.001 | 0.2 <0.0001 | <0.001 | <1 | <0.001 | 0.48 <0.001 | 0.17 <0.00005 | <1 | <0.001 | <3 | <0.05 | <1 | <5 | <0.005 | 870 | 150 | 0.13 | 0.029 <0.005 | 0.12 | 180 | 2 | 0.4 | 2.5 | 22 | 130 | - | 13 | |
| Alluvium Western Aa | HD03B_1C | | 28/02/2016 | | | 530 | 7.6 <10 | - | - | - | <0.005 | <0.001 | <0.001 | 0.18 <0.0001 | <0.001 | <1 | 0.004 | 0.48 <0.001 | 0.19 <0.00005 | <1 | 0.001 | <3 | <0.05 | <1 | <5 | <0.005 | 880 | 150 | 0.11 | 0.017 <0.005 | 0.12 | 170 | 2 | 0.4 | 2.7 | 21 | 170 <0.5 | 14 | | |
| Alluvium Western Aa | hd03b_04I- | | 21/04/2016 | | | 530 | 7.8 <10 | - | - | - | <0.005 | <0.001 | <0.001 | 0.18 <0.0001 | <0.001 | <1 | 0.003 | 0.62 <0.001 | 0.18 <0.00005 | <1 | <0.001 | <3 | <0.05 | <1 | <5 | <0.005 | 890 | 150 | 0.11 <0.005 | <0.005 | 0.09 | 150 | 1.8 | 0.4 | 2.6 | 20 | 150 <0.5 | 13 | | |
| Alluvium Western Aa | HD03B_0E- | | 3/07/2016 | | | 540 | 7.6 <10 | - | - | - | <0.005 | <0.001 | <0.001 | 0.17 <0.0001 | <0.001 | <1 | <0.001 | 0.36 <0.001 | 0.18 <0.00005 | <1 | <0.001 | <3 | <0.05 | <1 | <5 | 0.02 | 910 | 130 | 0.1 <0.005 | <0.005 | 0.11 | 110 | 1.8 | 0.5 | 2.5 | 20 | 160 <0.5 | 13 | | |
| Alluvium Western Aa | HD03B_1I- | | 23/11/2016 | | | 540 | 7.8 <20 | <20 | <130 | <3 | <0.005 | <0.001 | <0.001 | 0.19 <0.0001 | <0.001 | <1 | <0.001 | 0.45 <0.001 | 0.23 <0.00005 | <1 | <0.001 | <3 | <0.05 | <1 | <5 | <0.005 | 890 | 130 | 0.095 <0.005 | <0.005 | 0.1 | 170 | 2.5 | 0.4 | 2.6 | 20 | 160 <0.5 | 14 | | |
| Alluvium Western Aa | HD03B_0I- | | 24/04/2017 | | | 500 | 7.5 <20 | <20 | <125 | <3 | <0.005 | <0.001 | <0.001 | 0.16 <0.0001 | <0.001 | <1 | 0.003 | 0.2 <0.001 | 0.19 <0.00005 | <1 | <0.001 | <3 | <0.05 | <1 | <5 | <0.005 | 830 | 140 | 0.1 | 0.012 <0.005 | 0.13 | 160 | 1.8 | 0.4 | 2.2 | 17 | 150 <0.5 | 11 | | |

| Monitoring Zone | Field ID | Well | Sampled Date | UNIT | Physico-Chemical Parameters | | | Total Petroleum Hydrocarbons | | | Total Recoverable Hydrocarbons | | | Total BTEX | Aluminum (Filtered) | Arsenic (Filtered) | Boron (Filtered) | Cadmium (Filtered) | Chromium | Cobalt | Copper | Iron | Lead | Manganese | Mercury | Molybdenum | Nickel | Selenium | Silver | Uranium | Vanadium | Zinc | Physico-Chemical Parameters | | | | | Major Ions | | | | | | | | | | | | | | | | | | | | |
|------------------------------|----------|--------|--------------|-------|-----------------------------|----------|--------------|------------------------------|-------------------------|----------|--------------------------------|---------------|----------|------------|---------------------|--------------------|------------------|--------------------|----------|--------|--------|--------|--------|-----------|---------|------------|------------|----------|--------|---------|----------|------|-----------------------------|-----------|-----------|--------|----------|------------|-------------------------|---------------|---------------|----------------|---------|-----------|-----------|--------|----------|----------|------|------|------|------|------|------|------|------|------|------|
| | | | | | Total Dissolved Solids | pH (Lab) | Oil Fraction | C6-C10 fraction | >C10-C40 fraction (sum) | Chlorine | Nitrate | Ammonia | Fluoride | | | | | | | | | | | | | | | | | | | | Calcium | Magnesium | Potassium | Sodium | Sulphide | Sulphate | Electrical Conductivity | Total Nitrate | Total Ammonia | Total Fluoride | Calcium | Magnesium | Potassium | Sodium | Sulphide | Sulphate | | | | | | | | | | |
| | | | | | mg/L | units | µg/L | µg/L | µg/L | mg/L | mg/L | mg/L | mg/L | | | | | | | | | | | | | | | | | | | | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L |
| | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Bandanna Formation - AB Seam | C007P2 | C007P2 | 4/10/2011 | 10300 | 7.56 <20 | <20 | <20 | 1160 <1 | <0.01 | <0.01 | 0.003 | 0.045 <0.0001 | 0.0001 | 0.001 | 1 | 0.002 | 0.24 <0.0001 | 0.445 <0.0001 | 8 <0.001 | <10 | 4 | 3 <10 | <0.005 | 17100 | 205 | 3.07 | 0.03 <0.01 | 1.73 | 5460 | 558 | 0.4 | 234 | 52 | 2740 <0.1 | 554 | | | | | | | | | | | | | | | | | | | | | | | |
| Bandanna Formation - AB Seam | C007P2 | C007P2 | 10/11/2011 | 10700 | 7.95 | 20 | 20 <100 | <1 | <0.01 | 0.002 | 0.003 | 0.1 <0.0001 | 0.002 <1 | <0.001 | 0.001 | 0.16 <0.0001 | 0.304 <0.0001 | 1 <0.001 | <10 | 4 | 3 <10 | <0.005 | 16100 | 264 | 2.43 | 0.02 <0.01 | <0.01 | 5230 | 453 | 0.4 | 267 | 66 | 2590 <0.1 | 465 | | | | | | | | | | | | | | | | | | | | | | | | |
| Bandanna Formation - AB Seam | C007P2 | C007P2 | 10/11/2011 | 10800 | 7.73 <20 | <20 | <100 | <1 | <0.01 | 0.003 | 0.003 | 0.285 <0.0001 | 0.002 <1 | <0.001 | 0.001 | 0.16 <0.0001 | 0.304 <0.0001 | 1 <0.001 | <10 | 4 | 3 <10 | <0.005 | 16500 | 251 | 2.48 | 0.01 <0.01 | 0.04 | 4350 | 486 | 0.4 | 270 | 66 | 2620 <0.1 | 473 | | | | | | | | | | | | | | | | | | | | | | | | |

| Monitoring_Zone | Field_ID | Well | Sampled_Date_Time | UNIT | Physico-Chemical Parameters | | | | | | | | | | | | | | | Major Ions | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------|----------|-------------------|------|-----------------------------|------|----------|------|------------------------------|----|--------------------------------|-------|------------|----------------------|--------------------|------------------|--------------------|----------|--------|-------------------|-----------------|-----------------|-----------|--------------------|------------|-------------------|---------------------|-------------------|--------------------|----------|-------|-------------------------|------------------|------------------------------|----------------------|-----------------|----------|---------|-----------------|-----------|-----------|--------|-------------------|-------|
| | | | | | Total Dissolved Solids | | pH (Lab) | | Total Petroleum Hydrocarbons | | Total Recoverable Hydrocarbons | | Total BTEX | Aluminium (Filtered) | Arsenic (Filtered) | Boron (Filtered) | Cadmium (Filtered) | Chromium | Cobalt | Copper (Filtered) | Iron (Filtered) | Lead (Filtered) | Manganese | Mercury (Filtered) | Molybdenum | Nickel (Filtered) | Selenium (Filtered) | Silver (Filtered) | Uranium (Filtered) | Vanadium | Zinc | Electrical Conductivity | Total Alkalinity | Ammonia Nitrate (as Nitrate) | Nitrite (as Nitrite) | Total Phosphate | Chloride | Calcium | Fluoride (as F) | Magnesium | Potassium | Sodium | Sulphide (as SO4) | |
| | | | | | mg/L | mg/L | 2 | 0.01 | 10 | 20 | 100 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.005 | 0.001 |
| Joe Joe Formation | C914001S | C914001S | 26/02/2016 | LOR | 8900 | 7 | <10 | - | - | - | <0.005 | 0.001 | 2 | <0.0001 | <0.001 | <1 | <0.001 | 7.7 | <0.001 | 0.99 | <0.00005 | <1 | 0.001 | <1 | <0.15 | 3 | <1 | <0.005 | 15000 | 210 | 0.26 | <0.005 | <0.005 | <0.01 | 7000 | 870 | 0.3 | 430 | 120 | 3700 | <0.5 | 1600 | | |
| Joe Joe Formation | C914001S | C914001S | 20/04/2016 | LOR | 13000 | 7 | <10 | - | - | - | <0.005 | 0.002 | 2.1 | <0.0001 | <0.001 | <1 | <0.001 | 9.2 | <0.001 | 1 | <0.00005 | <1 | 0.001 | <1 | <0.5 | 3 | <1 | <0.005 | 21000 | 220 | 0.006 | 0.2 | 0.012 | 0.01 | 7200 | 880 | 0.3 | 430 | 110 | 3800 | <0.5 | 1500 | | |
| Joe Joe Formation | C914001S | C914001S | 8/07/2016 | LOR | 13000 | 6.7 | <10 | - | - | - | <0.005 | 0.002 | 2.1 | <0.0001 | <0.001 | <1 | 0.002 | 8.8 | <0.001 | 0.9 | <0.00005 | <1 | 0.002 | 2 | 0.18 | 2 | <1 | 0.006 | 21000 | 210 | 0.28 | <0.005 | <0.005 | 0.01 | 4200 | 840 | <0.5 | 420 | 130 | 44000 | <0.5 | 1500 | | |
| Joe Joe Formation | C914001S | C914001S | 25/11/2016 | LOR | 13000 | 6.8 | <20 | <20 | <125 | <3 | 0.006 | 0.002 | 2 | <0.0001 | <0.001 | <1 | 0.006 | 9.9 | <0.001 | 0.98 | <0.00005 | <1 | 0.002 | <1 | <0.5 | 3 | 4 | 0.15 | 21000 | 210 | 0.28 | 0.006 | <0.005 | <0.01 | 7300 | 860 | <0.5 | 430 | 120 | 3800 | <0.5 | 1500 | | |
| Joe Joe Formation | C914001S | C914001S | 22/04/2017 | LOR | 12000 | 6.8 | <20 | <20 | <125 | <3 | 0.006 | 0.002 | 2 | <0.0001 | <0.001 | <1 | 0.006 | 7.1 | <0.001 | 0.94 | <0.00005 | <1 | <0.001 | <5000 | <0.25 | 2 | <1 | <0.005 | 20000 | 190 | 0.34 | <0.005 | <0.005 | <0.01 | 6900 | 850 | <0.5 | 430 | 130 | 3900 | <0.5 | 1500 | | |

