



Infrastructure, environment, facilities

Transmittal Letter

To:
Thomas McLaughlin

Copies:
Jon Peckenpaugh
File

ARCADIS
1687 Cole Center
Suite 200
Lakewood
Colorado 80401
Tel 303.231.9115
Fax 303.231.9571

From:
Rebecca D. Lindeman

Date:
April 25, 2008

Subject:
Well Statistics Table

ARCADIS Project No.:
B0085721.0001

We are sending you:

☐ Attached

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☐ Plans

☐ Specifications

☐ Change Order

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☐ Samples

☐ Copy of Letter

☐ Reports

☒ Other: Table and Figure

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|--------|---------|-------------|------|--|---------|
| 1 | 4/24/08 | | | Monitoring Well Construction Information Table | AS |
| 1 | 4/24/08 | | | Groundwater Well Locations and WDEQ and NRC Boundaries Map | AS |
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Comments: Please find attached the Monitoring Well Construction Information Table and Groundwater Well Locations and WDEQ and NRC Boundaries Map that you requested. Please feel free to call me if you have any questions or comments.

MONITORING WELL CONSTRUCTION INFORMATION

**EMES-HIGHLAND RECLAMATION SITE
CONVERSE COUNTY, WYOMING**

| Well Number | Well Name ¹ | Northing ² | Easting ² | Date Installed | Screened Hydro geologic Unit | Ground Elevation (ft msl) | Depth of Completed Well (ft bgs) | Depth of Completed Well (msl) | Screen top (ft bgs) | Screen bottom (ft bgs) | Screen top (ft msl) | Screen bottom (ft msl) | Screen diameter (in) | Casing Material | Water Level (msl) | Date of Water Level |
|-------------|------------------------|-----------------------|----------------------|----------------|------------------------------|---------------------------|----------------------------------|-------------------------------|---------------------|------------------------|---------------------|------------------------|----------------------|-----------------|-------------------|---------------------|
| 15 | TDM DR | 76026.2 | 114074.3 | -- | TDSS | 5184.8 | 56 | 5128.8 | 51 | 56 | 5133.8 | 5128.8 | 4 | -- | DRY | 11/7/07 |
| 47 | DW-18 | 77474.1 | 106659.5 | -- | OSS/SH | 5273.1 | 420 | 4853.1 | 258 | 490 | 5015.1 | 4783.1 | 10 | -- | 5038.38 | 8/9/07 |
| 112 | TDM VII | 76565 | 114151.4 | -- | TDSS | 5183.69 | 75 | 5108.69 | 50 | 75 | 5133.69 | 5108.69 | 4 | -- | 5126.28 | 10/23/07 |
| 114 | TDM IX | 75580.4 | 110120 | -- | TDSS | 5240.3 | 150 | 5090.3 | 105 | 145 | 5135.3 | 5095.3 | 5 | -- | 5100.02 | 10/24/07 |
| 116 | TDM XI | 75600.1 | 110101.1 | -- | OSS | 5241.84 | 207 | 5034.84 | 177 | 207 | 5064.84 | 5034.84 | 4 | -- | 5056.97 | 10/24/07 |
| 117 | TDM XII | 74253.4 | 111749.5 | -- | TDSS | 5262.68 | 150.6 | 5112.08 | 105 | 146 | 5157.68 | 5116.68 | 5 | -- | 5119.8 | 11/7/07 |
| 120 | TDM XXI | 76950.8 | 112068.3 | -- | TDSS | 5237.4 | 143 | 5094.4 | 95 | 140 | 5142.4 | 5097.4 | 5 | -- | 5112.82 | 10/29/07 |
| 125 | TDM XXVI | 76128.9 | 114593.9 | -- | TDSS | 5169.4 | 52 | 5117.4 | 47 | 52 | 5122.4 | 5117.4 | 5 | PVC | 5121 | 10/29/07 |
| 127 | TDM XXVIII | 77262 | 114254.8 | -- | TDSS | 5201.3 | 78 | 5123.3 | 73 | 78 | 5128.3 | 5123.3 | 5 | PVC | DRY | 11/7/07 |
| 128 | TDM XXIX | 77279.6 | 114251.1 | -- | OSS | 5201.8 | 145 | 5056.8 | 140 | 145 | 5061.8 | 5056.8 | 4.5 | Fiberglass | 5070.9 | 10/29/07 |
| 129 | TDM XXX | 76922.2 | 112068.1 | -- | OSS | 5237.4 | 193 | 5044.4 | 188 | 193 | 5049.4 | 5044.4 | 4.5 | Fiberglass | 5062.54 | 10/29/07 |
| 131 | RM-1 | 78457.7 | 100396.1 | -- | TDSS | 5342.1 | 345 | 4997.1 | 340 | 345 | 5002.1 | 4997.1 | 4.5 | Fiberglass | 5110.74 | 8/10/07 |
| 132 | RM-2 | 77035 | 101325.6 | -- | TDSS | 5289.9 | 235 | 5054.9 | 230 | 235 | 5059.9 | 5054.9 | 4.5 | Fiberglass | 5082.5 | 8/16/07 |
| 133 | RM-3 | 76000.8 | 102000.1 | -- | TDSS | 5256.2 | 193 | 5063.2 | 188 | 193 | 5068.2 | 5063.2 | 5 | PVC | 5079.8 | 8/16/07 |
| 134 | RM-4 | 71158.3 | 106800.2 | -- | TDSS | 5156.8 | 55 | 5101.8 | 50 | 55 | 5106.8 | 5101.8 | 5 | PVC | 5124.36 | 10/30/07 |
| 136 | DW-41 | 72348 | 107537.9 | -- | TDSS/OSS/SH | 5227.1 | 364 | 4863.1 | 102 | 470 | 5125.1 | 4757.1 | 8 | -- | 5061.05 | 8/7/07 |
| 141 | DW-46 | 73583.8 | 104714.6 | -- | OSS/SH | 5235.5 | 368 | 4867.5 | 211 | 460 | 5024.5 | 4775.5 | 8 | -- | 5066.8 | 8/8/07 |
| 142 | DW-47 | 73886.1 | 103399 | -- | TDSS/OSS/SH | 5238.6 | 357 | 4881.6 | 51 | 424 | 5187.6 | 4814.6 | 8 | -- | 5112.6 | 8/6/07 |
| 144 | DW-35 | 76693.8 | 103409.5 | -- | FOWLER/TDSS/ OSS/SH | 5311.3 | 500 | 4811.3 | 200 | 500 | 5111.3 | 4811.3 | 8 | -- | 5068.1 | 8/6/07 |
| 148 | TDM XXXII | 73813.8 | 115094.8 | -- | OSS/SH | 5109.98 | 40 | 5069.98 | 30 | 40 | 5079.98 | 5069.98 | 5 | PVC | DRY | 11/7/07 |
| 150 | TDM XXXIV | 77550.9 | 106776.3 | -- | FOWLER | 5301 | 180 | 5121 | 140 | 180 | 5161 | 5121 | 4 | PVC | 5093.6 | Feb-02 |
| 151 | TDM XXXV | 76308.3 | 107831.5 | -- | TDSS | 5270.4 | 199 | 5071.4 | -- | -- | -- | -- | -- | -- | 5073.1 | Aug-01 |
| 152 | TDM XXXVI | 73125.6 | 112602 | -- | OSS | 5280.5 | 208 | 5072.5 | -- | -- | -- | -- | -- | -- | 5079.2 | Aug-01 |
| 170 | TDM XXXVII | 74481.2 | 107441.9 | -- | BACKFILL | 5127.5 | 180 | 4947.5 | 140 | 180 | 4987.5 | 4947.5 | 4 | PVC | 5036.3 | 8/17/07 |
| 171 | TDM XXXVIII | 74268.1 | 108904.3 | -- | BACKFILL | 5202.6 | 258 | 4944.6 | 218 | 258 | 4984.6 | 4944.6 | 4 | PVC | 5048.5 | 10/30/07 |
| 172 | EM-5 | 78815 | 107535.1 | -- | TDSS | 5269.4 | 233 | 5036.4 | 173 | 231 | 5096.4 | 5038.4 | 4 | -- | 5080.19 | 10/23/07 |
| 173 | TDM XXXIX | 72931.3 | 109911.7 | -- | BACKFILL | 5238.09 | 200 | 5038.09 | 160 | 200 | 5078.09 | 5038.09 | 4 | PVC | 5064.92 | 11/6/07 |
| 174 | TDM XL | 79017 | 102402.1 | -- | TDSS | 5378.3 | 358 | 5020.3 | 318 | 358 | 5060.3 | 5020.3 | 4 | PVC | 5083.44 | 10/23/07 |
| 175 | TDM XLI | 75518.6 | 110009.7 | -- | TDSS | 5257.6 | 174 | 5083.6 | 133 | 173 | 5124.6 | 5084.6 | 4 | PVC | 5106 | 10/24/07 |
| 176 | TDM XLII | 77503.7 | 112195.8 | -- | TDSS | 5252.8 | 161 | 5091.8 | 131 | 161 | 5121.8 | 5091.8 | 4 | PVC | 5310.37 | 10/25/07 |
| 177 | TDM XLIII | 74138.5 | 111630.7 | -- | TDSS | 5262 | 145 | 5117 | 105 | 145 | 5157 | 5117 | 4 | PVC | DRY | 11/7/07 |
| 178 | TDM XLIV | 73787.9 | 111351.6 | -- | TDSS | 5274 | 167 | 5107 | 127 | 167 | 5147 | 5107 | 4 | PVC | 5113.44 | 10/29/07 |
| 179 | TDM XLV | 77978 | 112219.5 | -- | TDSS | 5293.7 | 216 | 5077.7 | 176 | 216 | 5117.7 | 5077.7 | 4 | PVC | 5113.1 | 10/30/07 |
| 180 | TDM XLVI | 75439.8 | 109728.7 | -- | BACKFILL | 5322.5 | 240 | 5082.5 | 200 | 240 | 5122.5 | 5082.5 | 4 | PVC | DRY | 11/7/07 |
| 181 | TDM XLVII | 78139.9 | 113512.9 | -- | TDSS | 5236.3 | 137 | 5099.3 | 107 | 137 | 5129.3 | 5099.3 | 4 | PVC | 5116.5 | 10/25/07 |
| 182 | TDM XLVIII | 79420 | 113590 | -- | TDSS | 5238.7 | 156 | 5082.7 | 136 | 156 | 5102.7 | 5082.7 | 4 | PVC | 5112.73 | 10/25/07 |
| 183 | TDM XLIX | 78129.1 | 110719.4 | -- | TDSS | 5299.8 | 217 | 5082.8 | 187 | 217 | 5112.8 | 5082.8 | 4 | PVC | 5105.04 | 10/30/07 |
| NA | MFG-1 | 874029.5 | 414525.55 | 10/6/04 | OSS | 5115.827 | 51.5 | 5064.327 | 20.5 | 50.9 | 5095.33 | 5064.93 | 4 | PVC | 44.95 | 11/6/07 |
| NA | MFG-2 | 874038.3 | 414543.5 | 10/7/04 | OSS | 5114.744 | 96 | 5018.744 | 76.6 | 92 | 5038.14 | 5022.74 | 4 | PVC | 49.92 | 11/6/07 |
| NA | MFG-3 | 874047.3 | 414561.69 | 10/7/04 | OSS | 5113.079 | 151.5 | 4961.579 | 130.17 | 140.57 | 4982.91 | 4972.51 | 4 | PVC | 47.8 | 11/6/07 |
| NA | BBL-1 | 873723.37 | 415383.07 | 7/1/06 | ALLUVIUM | 5092.4 | 136.5 | 4955.9 | 85.8 | 126.2 | 5006.6 | 4966.2 | 4 | PVC | 30.34 | 11/5/07 |
| NA | BBL-2 | 873510.60 | 415471.18 | 6/28/06 | ALLUVIUM | 5091.03 | 36.5 | 5054.53 | 20.7 | 36.1 | 5070.33 | 5054.93 | 4 | PVC | 27.9 | 11/5/07 |
| NA | BBL-3 | 873158.74 | 415961.36 | 6/28/06 | ALLUVIUM | 5085.56 | 44.5 | 5041.06 | 24.8 | 40.2 | 5060.76 | 5045.36 | 4 | PVC | 23.8 | 11/5/07 |
| NA | BBL-4 | 871969.39 | 417072.44 | 7/1/06 | ALLUVIUM | 5066.64 | 39.6 | 5027.04 | 24.2 | 39.6 | 5042.44 | 5027.04 | 4 | PVC | 15.66 | 11/5/07 |

Notes:

- The legal location of the wells is unknown.
 - The datum for the MFG wells is WGS 84; the datum for the BBL wells is NAD83. The datum for other wells is unknown.
- Data unknown.
bgs Below ground surface.
ft Feet.
in Inch.
msl Mean sea level.
NA Not assigned.
OSS Ore Body Sandstone.
PVC Polyvinyl chloride.
SH Shale.
TDSS Tailing Dam Sandstone.

XREFS: 85721X01
 IMAGES:
 PROJECTNAME: ---

