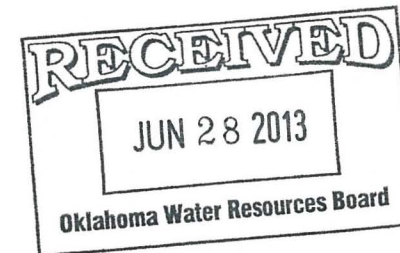


MMM Davis Quarry 2013 Q1 Monitoring Report

All volumes are in acre-feet.

| | Total Groundwater Entering Pit | Total Stormwater Entering Pit | Total Pit Stormwater Diverted | Total Pit Water Diverted | Pit Water Sent To Holding Basin | Groundwater Augmentation | Streamwater Augmentation | Consumptive Use of Pit Water | Consumptive Use of Groundwater | Groundwater Pumped From Wells |
|----------------|--------------------------------------|-------------------------------------|-------------------------------------|-----------------------------|---------------------------------------|-----------------------------|-----------------------------|------------------------------------|--------------------------------------|-------------------------------------|
| January-13 | -5.02 | 5.07 | 5.07 | 0.05 | N/A | -5.02 | 0.00 | 2.46 | 0.00 | 0.00 |
| February-13 | -17.25 | 29.87 | 29.87 | 12.62 | N/A | -17.25 | 0.00 | 1.87 | 0.00 | 0.00 |
| March-13 | -1.55 | 2.90 | 2.90 | 1.34 | N/A | -1.55 | 0.00 | 3.77 | 0.00 | 0.00 |
| 1st QTR Totals | -23.82 | 37.84 | 37.84 | 14.02 | 0.00 | -23.82 | 0.00 | 8.10 | 0.00 | 0.00 |
| April-13 | | | | | | | | | | |
| May-13 | | | | | | | | | | |
| June-13 | | | | | | | | | | |
| 2nd QTR Totals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| July-13 | | | | | | | | | | |
| August-13 | | | | | | | | | | |
| September-13 | | | | | | | | | | |
| 3rd QTR Totals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| October-13 | | | | | | | | | | |
| November-13 | | | | | | | | | | |
| December-13 | | | | | | | | | | |
| 4th QTR Totals | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2013 Totals | -23.82 | 37.84 | 37.84 | 14.02 | 0.00 | -23.82 | 0.00 | 8.10 | 0.00 | 0.00 |



Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 0006-Core Test
Specification

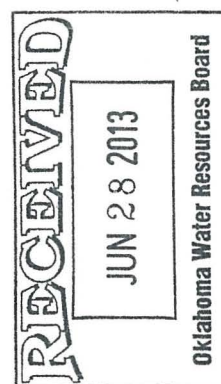
| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|------------|-------|---------|--------|--------|---------------|
| Absorption | 6 | 0.74 | 0.153 | | |



Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 10-Belt Cut
Specification

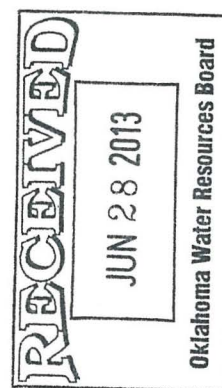
| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Total Moisture | 32 | 1.60 | 1.170 | | |



Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 100-OK Type A Base / TBSC Type E
Specification OK TYPE A Base

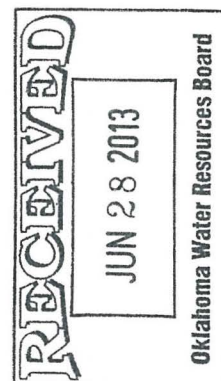
| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Total Moisture | 28 | 6.20 | 2.943 | | |



Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 101-2 1/2" Base
Specification

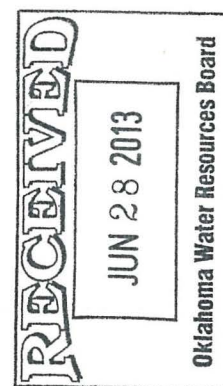
| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Total Moisture | 2 | 2.48 | 0.559 | | |



Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 103-1 1/2 Crusher Run
Specification

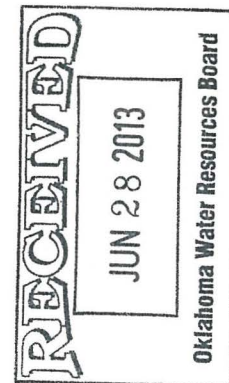
| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Total Moisture | 1 | 3.50 | | | |



Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 107-1" Flex Base
Specification

| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Total Moisture | 1 | 1.95 | | | |



Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 2878-Single Course Filter Blanket
Specification Single Course Filter Blanket

| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Total Moisture | 3 | 0.96 | 1.048 | | |

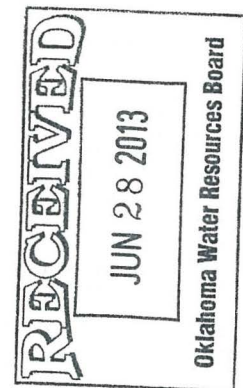




Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 300-3/8" Agg
Specification (300) - 3/8" Agg

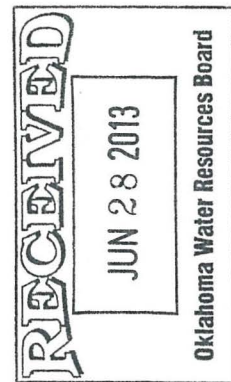
| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Absorption | 1 | 0.60 | | | |
| Total Moisture | 91 | 2.58 | 0.777 | | |



Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 300-No. 8 Stone
Specification ODOT 8 Crs Agg

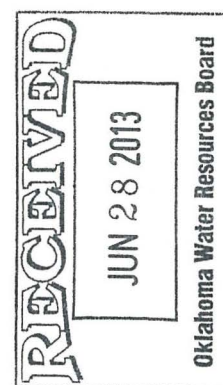
| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Total Moisture | 3 | 2.76 | 0.784 | | |



Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 302-Course Stone Agg
Specification

| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Total Moisture | 1 | 0.39 | | | |



Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 338-PUCM
Specification PUCM

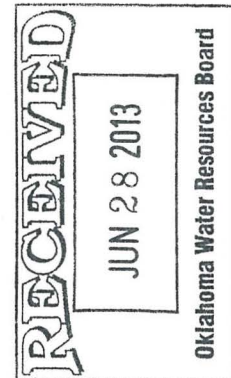
| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Total Moisture | 11 | 1.98 | 0.896 | | |



Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 403-Manufactured Sand
Specification

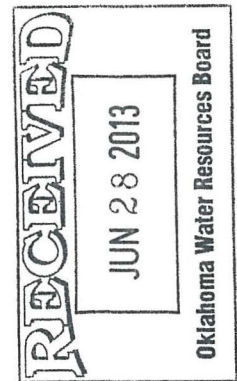
| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Absorption | 2 | 1.10 | 0.375 | | |
| Total Moisture | 19 | 6.23 | 1.961 | | |



Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 42-3/8" Dry Screenings
Specification

| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Total Moisture | 6 | 3.30 | 0.889 | | |



Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 510-#67 Concrete Agg
Specification MPI #67

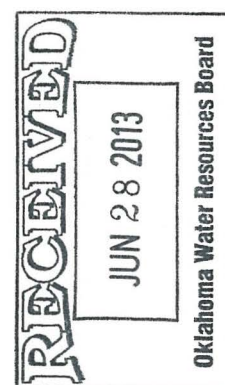
| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Absorption | 2 | 0.70 | 0.035 | | |
| Total Moisture | 53 | 2.89 | 0.611 | | |



Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 511-CI A Concrete Rock
Specification ODOT CI A Concrete Aggregate

| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Absorption | 3 | 0.69 | 0.182 | | |
| Total Moisture | 160 | 2.10 | 0.763 | | |



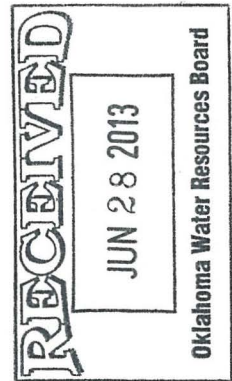
Basic Quality Statistical Summary Report

Period 01/01/2012 - 02/05/2013
Plant 47110-MPI-Davis
Product 517-5/8" Chips
Specification AASHTO 7

| Sieve/Test | Tests | Average | St Dev | Target | Specification |
|----------------|-------|---------|--------|--------|---------------|
| Absorption | 1 | 0.66 | | | |
| Total Moisture | 101 | 3.12 | 0.968 | | |

Comments

Query Query Selections
Date Created 02/05/2013
Date Range 01/01/2012 - 02/05/2013
Plant MPI-Davis



| | Consumptive Use | | |
|-------------------------------------|-----------------|----------|-------|
| | January | February | March |
| Water Truck Usage | 0.12 | 0.03 | 0.92 |
| Moisture Content of Product Shipped | 2.34 | 1.87 | 2.85 |
| Misc on site use | - | - | - |
| Misc off site | - | - | - |
| Total | 2.46 | 1.90 | 3.77 |

| | January | February | March |
|------------------|---------|----------|---------|
| Shipped Tons | | | |
| Base | 29,313 | 29,777 | 34,737 |
| Coarse Aggregate | 76,170 | 56,027 | 101,011 |
| Fine Aggregate | 14,275 | 8,731 | 14,477 |
| Total | 119,758 | 94,535 | 150,225 |
| Moisture Shipped | 2.34 | 1.87 | 2.85 |

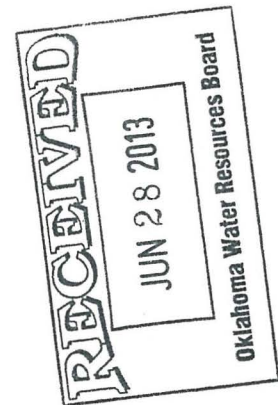


February Precipitation Data

| PIT RUNOFF ASSUMPTIONS | | |
|---|-------------|-------------------------------|
| Hydrologic Soil Group | D | |
| Land Use | gravel road | |
| AMC Condition | II (ave) | |
| CN (pit fringe) | 88 | area draining into pit |
| CN (pit) | 100 | area with direct interception |
| S (pit fringe) | 1.364 | area draining into pit |
| S (pit) | 0.000 | area with direct interception |
| Pit - Direct Interception (>95 ft deep) | 54.36 | subject to refinement |
| Pit fringe (area drains to pit) | 68.34 | subject to refinement |
| Drainage to Pit (total area) | 122.70 | subject to refinement |

Quarry area Fringe area

| Date | Precip, in. | Runoff, in. | Runoff, in. | Evapor, in/day |
|------------------|-------------|-------------|-------------|----------------|
| 1-Feb | 0.00 | 0.00 | 0.00 | 0.087 |
| 2-Feb | 0.00 | 0.00 | 0.00 | 0.097 |
| 3-Feb | 0.00 | 0.00 | 0.00 | 0.103 |
| 4-Feb | 0.00 | 0.00 | 0.00 | 0.125 |
| 5-Feb | 0.00 | 0.00 | 0.00 | 0.027 |
| 6-Feb | 2.00 | 2.00 | 0.97 | 0.023 |
| 7-Feb | 0.30 | 0.30 | 0.00 | 0.042 |
| 8-Feb | 0.03 | 0.03 | 0.00 | 0.084 |
| 9-Feb | 0.03 | 0.03 | 0.00 | 0.023 |
| 10-Feb | 0.38 | 0.38 | 0.00 | 0.167 |
| 11-Feb | 0.00 | 0.00 | 0.00 | 0.096 |
| 12-Feb | 0.78 | 0.78 | 0.00 | 0.012 |
| 13-Feb | 0.00 | 0.00 | 0.00 | 0.109 |
| 14-Feb | 0.00 | 0.00 | 0.00 | 0.12 |
| 15-Feb | 0.00 | 0.00 | 0.00 | 0.085 |
| 16-Feb | 0.00 | 0.00 | 0.00 | 0.107 |
| 17-Feb | 0.00 | 0.00 | 0.00 | 0.195 |
| 18-Feb | 0.00 | 0.00 | 0.00 | 0.167 |
| 19-Feb | 0.00 | 0.00 | 0.00 | 0.098 |
| 20-Feb | 0.80 | 0.80 | 0.00 | 0.015 |
| 21-Feb | 0.31 | 0.31 | 0.00 | 0.079 |
| 22-Feb | 0.00 | 0.00 | 0.00 | 0.079 |
| 23-Feb | 0.00 | 0.00 | 0.00 | 0.074 |
| 24-Feb | 0.00 | 0.00 | 0.00 | 0.134 |
| 25-Feb | 0.56 | 0.56 | 0.00 | 0.014 |
| 26-Feb | 0.19 | 0.19 | 0.00 | 0.12 |
| 27-Feb | 0.00 | 0.00 | 0.00 | 0.119 |
| 28-Feb | 0.00 | 0.00 | 0.00 | 0.126 |
| | | 0.00 | 0.00 | |
| | | 0.00 | 0.00 | |
| | | 0.00 | 0.00 | |
| | | 5.38 | 0.97 | |
| Volume, ac-ft | | 24.37 | 5.50 | 2.527 |
| Total Vol, ac-ft | | 29.87 | | |



January Precipitation Data

| PIT RUNOFF ASSUMPTIONS | | |
|---|-------------|-------------------------------|
| Hydrologic Soil Group | D | |
| Land Use | gravel road | |
| AMC Condition | II (ave) | |
| CN (pit fringe) | 88 | area draining into pit |
| CN (pit) | 100 | area with direct interception |
| S (pit fringe) | 1.364 | area draining into pit |
| S (pit) | 0.000 | area with direct interception |
| Pit - Direct Interception (>95 ft deep) | 54.36 | subject to refinement |
| Pit fringe (area drains to pit) | 68.34 | subject to refinement |
| Drainage to Pit (total area) | 122.70 | subject to refinement |

Quarry areaFringe area

| Date | Precip, in. | Runoff, in. | Runoff, in. | Evapor, in/day |
|------------------|-------------|-------------|-------------|----------------|
| 1-Jan | 0.16 | 0.16 | 0.00 | 0.007 |
| 2-Jan | 0.00 | 0.00 | 0.00 | 0.048 |
| 3-Jan | 0.00 | 0.00 | 0.00 | 0.058 |
| 4-Jan | 0.00 | 0.00 | 0.00 | 0.051 |
| 5-Jan | 0.00 | 0.00 | 0.00 | 0.076 |
| 6-Jan | 0.00 | 0.00 | 0.00 | 0.079 |
| 7-Jan | 0.00 | 0.00 | 0.00 | 0.066 |
| 8-Jan | 0.03 | 0.03 | 0.00 | 0.031 |
| 9-Jan | 0.33 | 0.33 | 0.00 | 0.004 |
| 10-Jan | 0.32 | 0.32 | 0.00 | 0.031 |
| 11-Jan | 0.01 | 0.01 | 0.00 | 0.107 |
| 12-Jan | 0.07 | 0.07 | 0.00 | 0.025 |
| 13-Jan | 0.00 | 0.00 | 0.00 | 0.061 |
| 14-Jan | 0.00 | 0.00 | 0.00 | 0.06 |
| 15-Jan | 0.00 | 0.00 | 0.00 | 0.024 |
| 16-Jan | 0.00 | 0.00 | 0.00 | 0.098 |
| 17-Jan | 0.00 | 0.00 | 0.00 | 0.089 |
| 18-Jan | 0.00 | 0.00 | 0.00 | 0.107 |
| 19-Jan | 0.00 | 0.00 | 0.00 | 0.12 |
| 20-Jan | 0.00 | 0.00 | 0.00 | 0.096 |
| 21-Jan | 0.00 | 0.00 | 0.00 | 0.079 |
| 22-Jan | 0.00 | 0.00 | 0.00 | 0.086 |
| 23-Jan | 0.00 | 0.00 | 0.00 | 0.101 |
| 24-Jan | 0.00 | 0.00 | 0.00 | 0.059 |
| 25-Jan | 0.00 | 0.00 | 0.00 | 0.06 |
| 26-Jan | 0.00 | 0.00 | 0.00 | 0.019 |
| 27-Jan | 0.00 | 0.00 | 0.00 | 0.06 |
| 28-Jan | 0.00 | 0.00 | 0.00 | 0.068 |
| 29-Jan | 0.20 | 0.20 | 0.00 | 0.053 |
| 30-Jan | 0.00 | 0.00 | 0.00 | 0.101 |
| 31-Jan | 0.00 | 0.00 | 0.00 | 0.151 |
| | | 1.12 | 0.00 | |
| Volume, ac-ft | | 5.07 | 0.00 | 2.075 |
| Total Vol, ac-ft | | 5.07 | | |

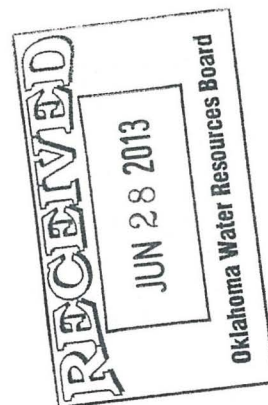


March Precipitation Data

| PIT RUNOFF ASSUMPTIONS | | |
|---|-------------|-------------------------------|
| Hydrologic Soil Group | D | |
| Land Use | gravel road | |
| AMC Condition | II (ave) | |
| CN (pit fringe) | 88 | area draining into pit |
| CN (pit) | 100 | area with direct interception |
| S (pit fringe) | 1.364 | area draining into pit |
| S (pit) | 0.000 | area with direct interception |
| Pit - Direct Interception (>95 ft deep) | 54.36 | subject to refinement |
| Pit fringe (area drains to pit) | 68.34 | subject to refinement |
| Drainage to Pit (total area) | 122.70 | subject to refinement |

Quarry area Fringe area

| Date | Precip, in. | Runoff, in. | Runoff, in. | Evapor, in/day |
|------------------|-------------|-------------|-------------|----------------|
| 1-Mar | 0.00 | 0.00 | 0.00 | 0.076 |
| 2-Mar | 0.00 | 0.00 | 0.00 | 0.099 |
| 3-Mar | 0.00 | 0.00 | 0.00 | 0.168 |
| 4-Mar | 0.00 | 0.00 | 0.00 | 0.22 |
| 5-Mar | 0.01 | 0.01 | 0.00 | 0.14 |
| 6-Mar | 0.00 | 0.00 | 0.00 | 0.106 |
| 7-Mar | 0.00 | 0.00 | 0.00 | 0.186 |
| 8-Mar | 0.00 | 0.00 | 0.00 | 0.073 |
| 9-Mar | 0.32 | 0.32 | 0.00 | 0.037 |
| 10-Mar | 0.13 | 0.13 | 0.00 | 0.006 |
| 11-Mar | 0.00 | 0.00 | 0.00 | 0.124 |
| 12-Mar | 0.00 | 0.00 | 0.00 | 0.101 |
| 13-Mar | 0.00 | 0.00 | 0.00 | 0.144 |
| 14-Mar | 0.00 | 0.00 | 0.00 | 0.212 |
| 15-Mar | 0.00 | 0.00 | 0.00 | 0.267 |
| 16-Mar | 0.00 | 0.00 | 0.00 | 0.206 |
| 17-Mar | 0.00 | 0.00 | 0.00 | 0.069 |
| 18-Mar | 0.00 | 0.00 | 0.00 | 0.135 |
| 19-Mar | 0.00 | 0.00 | 0.00 | 0.103 |
| 20-Mar | 0.00 | 0.00 | 0.00 | 0.145 |
| 21-Mar | 0.00 | 0.00 | 0.00 | 0.114 |
| 22-Mar | 0.00 | 0.00 | 0.00 | 0.037 |
| 23-Mar | 0.02 | 0.02 | 0.00 | 0.015 |
| 24-Mar | 0.00 | 0.00 | 0.00 | 0.132 |
| 25-Mar | 0.00 | 0.00 | 0.00 | 0.149 |
| 26-Mar | 0.00 | 0.00 | 0.00 | 0.14 |
| 27-Mar | 0.00 | 0.00 | 0.00 | 0.187 |
| 28-Mar | 0.00 | 0.00 | 0.00 | 0.163 |
| 29-Mar | 0.00 | 0.00 | 0.00 | 0.124 |
| 30-Mar | 0.00 | 0.00 | 0.00 | 0.127 |
| 31-Mar | 0.16 | 0.16 | 0.00 | 0.173 |
| | | 0.64 | 0.00 | |
| Volume, ac-ft | | 2.90 | 0.00 | 3.978 |
| Total Vol, ac-ft | | 2.90 | | |



Davis Water Balance

| | Dec '12 | Jan '13 | Feb '13 | Mar '13 |
|--|---------|---------|----------|---------|
| Monitoring Period, Days | 31 | 31 | 28 | 31 |
| Monthly Production, tons | 66,679 | 92,706 | 135,696 | 115,360 |
| Product Moisture Content | 3.5% | 3.5% | 3.5% | 3.5% |
| Water Truck Loads | 12.5 | 4 | 1 | 12 |
| Month End Water Elevs. | | | | |
| 1) Freshwater pond, depth to water | 13.025 | 15.987 | 6.484 | 8.911 |
| 2) Pit Sump, depth to water | 9.349 | 9.035 | 9.265 | 9.693 |
| Pond Surface Acres | | | | |
| 1) Freshwater pond | 0.937 | 0.937 | 0.937 | 0.937 |
| 2) Pit Sump | 0.322 | 0.322 | 0.322 | 0.322 |
| Total surface acres | 1.259 | 1.259 | 1.259 | 1.259 |
| Pond Water Volume Change | | | | |
| 1) Freshwater pond | #VALUE! | -2.775 | 8.904 | -2.274 |
| 2) Pit Sump | #VALUE! | 0.101 | -0.074 | -0.138 |
| 3) Change in settling pond storage | 0.000 | 0.000 | 0.000 | 0.000 |
| Net Volume Change | #VALUE! | -2.674 | 8.830 | -2.412 |
| Water Inputs, ac-ft | | | | |
| Rural Water | 0.000 | 0.000 | 0.000 | 0.000 |
| Lake Water | 0.000 | 0.000 | 0.000 | 0.000 |
| Well Water | 0.000 | 0.000 | 0.000 | 0.000 |
| Precipitation | #REF! | 5.074 | 29.868 | 2.899 |
| Total Water Input | #REF! | 5.074 | 29.868 | 2.899 |
| Water Usage, ac-ft | | | | |
| Product moisture content | 1.717 | 2.387 | 3.495 | 2.971 |
| Haul road dust control | 0.384 | 0.123 | 0.031 | 0.368 |
| Evaporation losses | #REF! | 0.218 | 0.265 | 0.417 |
| Misc usage | 0 | 0 | 0 | 0 |
| Total Water Usage, Ac-ft | #REF! | 2.728 | 3.790 | 3.756 |
| Net Water Input | #REF! | 2.346 | 26.078 | -0.857 |
| Groundwater Inflow | #VALUE! | -5.020 | -17.247 | -1.555 |
| Groundwater Inflow, Avg Ac-ft/Day | #VALUE! | -0.162 | -0.616 | -0.050 |
| Groundwater Inflow, Avg Gallons/Day | #VALUE! | -52,766 | -200,717 | -16,341 |

