



LABORATORY ANALYTICAL REPORT

Client: Marathon Ashland Pipeline
Project: PDC AMPP
Lab ID: B08120246-001
Client Sample ID: WD, 0-2 inches

Report Date: 12/30/08
Collection Date: 11/26/08 08:00
Date Received: 12/02/08
Matrix: Soil

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|--------|-------------|-------------|----------------------|
| PHYSICAL CHARACTERISTICS | | | | | | | |
| Sand | 20 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Silt | 51 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Clay | 29 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Texture | SiCL | | | | | ASA15-5 | 12/22/08 13:43 / srm |
| - C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y) | | | | | | | |
| SATURATED PASTE | | | | | | | |
| pH, sat. paste | 5.00 | s.u. | | 0.10 | | ASAM10-3.2 | 12/22/08 13:43 / srm |
| Conductivity, sat. paste | 3.16 | mmhos/cm | | 0.01 | | ASA10-3 | 12/22/08 13:43 / srm |
| Saturation | 65.4 | % | | 0.1 | | USDA27a | 12/22/08 13:43 / srm |
| Calcium, sat. paste | 23.9 | meq/L | | 0.05 | | SW6010B | 12/17/08 15:55 / rlh |
| Magnesium, sat. paste | 16.1 | meq/L | | 0.08 | | SW6010B | 12/17/08 15:55 / rlh |
| Sodium, sat. paste | 1.08 | meq/L | | 0.04 | | SW6010B | 12/17/08 15:55 / rlh |
| Sodium Adsorption Ratio (SAR) | 0.24 | unitless | | 0.01 | | Calculation | 12/22/08 13:43 / srm |
| CHEMICAL CHARACTERISTICS | | | | | | | |
| Lime as CaCO3 | 0.7 | % | | 0.1 | | USDA23c | 12/22/08 13:43 / srm |
| EXCHANGEABLES | | | | | | | |
| Cation Exchange Capacity | 36.2 | meq/100g | D | 0.08 | | SW6010B | 12/17/08 04:41 / rlh |
| Exchangeable Sodium Percentage | 0.08 | % | | 0.01 | | USDA20a | 12/22/08 13:43 / srm |
| METALS, AMMONIUM ACETATE EXTRACTABLE | | | | | | | |
| Sodium, extractable | 0.069 | meq/100g | D | 0.0016 | | SW6010B | 12/16/08 08:05 / rlh |

Report Definitions:

RL - Analyte reporting limit.

QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Marathon Ashland Pipeline
Project: PDC AMPP
Lab ID: B08120246-002
Client Sample ID: WD, 0-6 inches

Report Date: 12/30/08
Collection Date: 11/26/08 08:00
Date Received: 12/02/08
Matrix: Soil

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|--------|-------------|-------------|----------------------|
| PHYSICAL CHARACTERISTICS | | | | | | | |
| Sand | 13 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Silt | 51 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Clay | 36 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Texture | SiCL | | | | | ASA15-5 | 12/22/08 13:43 / srm |
| - C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y) | | | | | | | |
| SATURATED PASTE | | | | | | | |
| pH, sat. paste | 6.70 | s.u. | | 0.10 | | ASAM10-3.2 | 12/22/08 13:43 / srm |
| Conductivity, sat. paste | 1.77 | mmhos/cm | | 0.01 | | ASA10-3 | 12/22/08 13:43 / srm |
| Saturation | 62.2 | % | | 0.1 | | USDA27a | 12/22/08 13:43 / srm |
| Calcium, sat. paste | 12.6 | meq/L | | 0.05 | | SW6010B | 12/17/08 16:03 / rlh |
| Magnesium, sat. paste | 9.00 | meq/L | | 0.08 | | SW6010B | 12/17/08 16:03 / rlh |
| Sodium, sat. paste | 0.40 | meq/L | | 0.04 | | SW6010B | 12/17/08 16:03 / rlh |
| Sodium Adsorption Ratio (SAR) | 0.12 | unitless | | 0.01 | | Calculation | 12/22/08 13:43 / srm |
| Sulfate, sat. paste | 754 | mg/L | | 1 | | ASA10-3 | 12/17/08 21:24 / kh |
| CHEMICAL CHARACTERISTICS | | | | | | | |
| Lime as CaCO3 | 1.3 | % | | 0.1 | | USDA23c | 12/22/08 13:43 / srm |
| Phosphorus, Olsen | 13 | mg/kg | | 1 | | ASA24-5 | 12/12/08 10:18 / srm |
| Nitrate as N, KCL Extract | 17 | mg/kg | | 1 | | ASA33-8 | 12/19/08 13:19 / srm |
| Organic Matter | 3.21 | % | | 0.02 | | ASA29-3 | 12/22/08 14:33 / srm |
| EXCHANGEABLES | | | | | | | |
| Cation Exchange Capacity | 33.2 | meq/100g | D | 0.08 | | SW6010B | 12/17/08 04:57 / rlh |
| Exchangeable Sodium Percentage | 0.12 | % | | 0.01 | | USDA20a | 12/22/08 13:43 / srm |
| METALS, AMMONIUM ACETATE EXTRACTABLE | | | | | | | |
| Sodium, extractable | 0.066 | meq/100g | D | 0.0016 | | SW6010B | 12/16/08 08:12 / rlh |
| Potassium, available | 602 | mg/kg | D | 0.13 | | SW6010B | 12/16/08 08:12 / rlh |
| METALS, DTPA EXTRACTABLE | | | | | | | |
| Zinc | 0.9 | mg/kg | | 0.1 | | SW6010B | 12/23/08 22:09 / rlh |

Report Definitions:

RL - Analyte reporting limit.

QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Marathon Ashland Pipeline
Project: PDC AMPP
Lab ID: B08120246-003
Client Sample ID: WD, 6-12 inches

Report Date: 12/30/08
Collection Date: 11/26/08 08:00
Date Received: 12/02/08
Matrix: Soil

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|--------|-------------|-------------|----------------------|
| PHYSICAL CHARACTERISTICS | | | | | | | |
| Sand | 7 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Silt | 48 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Clay | 45 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Texture | SiC | | | | | ASA15-5 | 12/22/08 13:43 / srm |
| - C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y) | | | | | | | |
| SATURATED PASTE | | | | | | | |
| pH, sat. paste | 7.40 | s.u. | | 0.10 | | ASAM10-3.2 | 12/22/08 13:43 / srm |
| Conductivity, sat. paste | 1.12 | mmhos/cm | | 0.01 | | ASA10-3 | 12/22/08 13:43 / srm |
| Saturation | 68.9 | % | | 0.1 | | USDA27a | 12/22/08 13:43 / srm |
| Calcium, sat. paste | 6.75 | meq/L | | 0.05 | | SW6010B | 12/17/08 16:11 / rlh |
| Magnesium, sat. paste | 5.73 | meq/L | | 0.08 | | SW6010B | 12/17/08 16:11 / rlh |
| Sodium, sat. paste | 0.42 | meq/L | | 0.04 | | SW6010B | 12/17/08 16:11 / rlh |
| Sodium Adsorption Ratio (SAR) | 0.17 | unitless | | 0.01 | | Calculation | 12/22/08 13:43 / srm |
| Sulfate, sat. paste | 372 | mg/L | | 1 | | ASA10-3 | 12/17/08 21:36 / kh |
| CHEMICAL CHARACTERISTICS | | | | | | | |
| Lime as CaCO ₃ | 3.9 | % | | 0.1 | | USDA23c | 12/22/08 13:43 / srm |
| Nitrate as N, KCL Extract | 12 | mg/kg | | 1 | | ASA33-8 | 12/19/08 13:20 / srm |
| EXCHANGEABLES | | | | | | | |
| Cation Exchange Capacity | 32.8 | meq/100g | D | 0.08 | | SW6010B | 12/17/08 05:04 / rlh |
| Exchangeable Sodium Percentage | 0.11 | % | | 0.01 | | USDA20a | 12/22/08 13:43 / srm |
| METALS, AMMONIUM ACETATE EXTRACTABLE | | | | | | | |
| Sodium, extractable | 0.064 | meq/100g | D | 0.0016 | | SW6010B | 12/16/08 08:20 / rlh |

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Marathon Ashland Pipeline
Project: PDC AMPP
Lab ID: B08120246-004
Client Sample ID: WD, 12-24 inches

Report Date: 12/30/08
Collection Date: 11/26/08 08:00
Date Received: 12/02/08
Matrix: Soil

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|--------|-------------|-------------|----------------------|
| PHYSICAL CHARACTERISTICS | | | | | | | |
| Sand | 11 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Silt | 50 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Clay | 39 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Texture | SiCL | | | | | ASA15-5 | 12/22/08 13:43 / srm |
| - C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y) | | | | | | | |
| SATURATED PASTE | | | | | | | |
| pH, sat. paste | 7.60 | s.u. | | 0.10 | | ASAM10-3.2 | 12/22/08 13:43 / srm |
| Conductivity, sat. paste | 3.12 | mmhos/cm | | 0.01 | | ASA10-3 | 12/22/08 13:43 / srm |
| Saturation | 66.1 | % | | 0.1 | | USDA27a | 12/22/08 13:43 / srm |
| Calcium, sat. paste | 27.6 | meq/L | | 0.05 | | SW6010B | 12/17/08 16:22 / rlh |
| Magnesium, sat. paste | 18.8 | meq/L | | 0.08 | | SW6010B | 12/17/08 16:22 / rlh |
| Sodium, sat. paste | 0.99 | meq/L | | 0.04 | | SW6010B | 12/17/08 16:22 / rlh |
| Sodium Adsorption Ratio (SAR) | 0.20 | unitless | | 0.01 | | Calculation | 12/22/08 13:43 / srm |
| Sulfate, sat. paste | 2200 | mg/L | D | 5 | | ASA10-3 | 12/17/08 21:47 / kh |
| CHEMICAL CHARACTERISTICS | | | | | | | |
| Lime as CaCO ₃ | 5.9 | % | | 0.1 | | USDA23c | 12/22/08 13:43 / srm |
| Nitrate as N, KCL Extract | 5 | mg/kg | | 1 | | ASA33-8 | 12/19/08 13:20 / srm |
| EXCHANGEABLES | | | | | | | |
| Cation Exchange Capacity | 28.8 | meq/100g | D | 0.08 | | SW6010B | 12/17/08 05:08 / rlh |
| Exchangeable Sodium Percentage | 0.10 | % | | 0.01 | | USDA20a | 12/22/08 13:43 / srm |
| METALS, AMMONIUM ACETATE EXTRACTABLE | | | | | | | |
| Sodium, extractable | 0.093 | meq/100g | D | 0.0016 | | SW6010B | 12/16/08 08:24 / rlh |

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Marathon Ashland Pipeline
Project: PDC AMPP
Lab ID: B08120246-005
Client Sample ID: WD, 24-36 inches

Report Date: 12/30/08
Collection Date: 11/26/08 08:00
Date Received: 12/02/08
Matrix: Soil

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|--------|-------------|-------------|----------------------|
| PHYSICAL CHARACTERISTICS | | | | | | | |
| Sand | 17 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Silt | 50 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Clay | 33 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Texture | SiCL | | | | | ASA15-5 | 12/22/08 13:43 / srm |
| - C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y) | | | | | | | |
| SATURATED PASTE | | | | | | | |
| pH, sat. paste | 7.70 | s.u. | | 0.10 | | ASAM10-3.2 | 12/22/08 13:43 / srm |
| Conductivity, sat. paste | 4.04 | mmhos/cm | | 0.01 | | ASA10-3 | 12/22/08 13:43 / srm |
| Saturation | 62.8 | % | | 0.1 | | USDA27a | 12/22/08 13:43 / srm |
| Calcium, sat. paste | 26.1 | meq/L | | 0.05 | | SW6010B | 12/17/08 16:26 / rlh |
| Magnesium, sat. paste | 32.0 | meq/L | | 0.08 | | SW6010B | 12/17/08 16:26 / rlh |
| Sodium, sat. paste | 6.73 | meq/L | | 0.04 | | SW6010B | 12/17/08 16:26 / rlh |
| Sodium Adsorption Ratio (SAR) | 1.25 | unitless | | 0.01 | | Calculation | 12/22/08 13:43 / srm |
| CHEMICAL CHARACTERISTICS | | | | | | | |
| Lime as CaCO3 | 5.7 | % | | 0.1 | | USDA23c | 12/22/08 13:43 / srm |
| EXCHANGEABLES | | | | | | | |
| Cation Exchange Capacity | 24.2 | meq/100g | D | 0.08 | | SW6010B | 12/17/08 05:12 / rlh |
| Exchangeable Sodium Percentage | 0.64 | % | | 0.01 | | USDA20a | 12/22/08 13:43 / srm |
| METALS, AMMONIUM ACETATE EXTRACTABLE | | | | | | | |
| Sodium, extractable | 0.58 | meq/100g | D | 0.0016 | | SW6010B | 12/16/08 08:27 / rlh |

Report Definitions:

RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Marathon Ashland Pipeline
Project: PDC AMPP
Lab ID: B08120246-006
Client Sample ID: WD, 36-48 inches

Report Date: 12/30/08
Collection Date: 11/26/08 08:00
Date Received: 12/02/08
Matrix: Soil

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|--------|-------------|-------------|----------------------|
| PHYSICAL CHARACTERISTICS | | | | | | | |
| Sand | 10 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Silt | 55 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Clay | 35 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Texture | SiCL | | | | | ASA15-5 | 12/22/08 13:43 / srm |
| - C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y) | | | | | | | |
| SATURATED PASTE | | | | | | | |
| pH, sat. paste | 8.10 | s.u. | | 0.10 | | ASAM10-3.2 | 12/22/08 13:43 / srm |
| Conductivity, sat. paste | 5.90 | mmhos/cm | | 0.01 | | ASA10-3 | 12/22/08 13:43 / srm |
| Saturation | 58.8 | % | | 0.1 | | USDA27a | 12/22/08 13:43 / srm |
| Calcium, sat. paste | 24.3 | meq/L | D | 0.1 | | SW6010B | 12/17/08 16:30 / rlh |
| Magnesium, sat. paste | 59.1 | meq/L | D | 0.1 | | SW6010B | 12/17/08 16:30 / rlh |
| Sodium, sat. paste | 20.6 | meq/L | D | 0.08 | | SW6010B | 12/17/08 16:30 / rlh |
| Sodium Adsorption Ratio (SAR) | 3.18 | unitless | | 0.01 | | Calculation | 12/22/08 13:43 / srm |
| CHEMICAL CHARACTERISTICS | | | | | | | |
| Lime as CaCO3 | 8.4 | % | | 0.1 | | USDA23c | 12/22/08 13:43 / srm |
| EXCHANGEABLES | | | | | | | |
| Cation Exchange Capacity | 25.3 | meq/100g | D | 0.08 | | SW6010B | 12/17/08 05:16 / rlh |
| Exchangeable Sodium Percentage | 1.95 | % | | 0.01 | | USDA20a | 12/22/08 13:43 / srm |
| METALS, AMMONIUM ACETATE EXTRACTABLE | | | | | | | |
| Sodium, extractable | 1.7 | meq/100g | D | 0.0016 | | SW6010B | 12/16/08 08:31 / rlh |

Report Definitions:

RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Marathon Ashland Pipeline
Project: PDC AMPP
Lab ID: B08120246-007
Client Sample ID: WD, 48-60 inches

Report Date: 12/30/08
Collection Date: 11/26/08 08:00
Date Received: 12/02/08
Matrix: Soil

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|--------|-------------|-------------|----------------------|
| PHYSICAL CHARACTERISTICS | | | | | | | |
| Sand | 12 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Silt | 55 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Clay | 33 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Texture | SiCL | | | | | ASA15-5 | 12/22/08 13:43 / srm |
| - C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y) | | | | | | | |
| SATURATED PASTE | | | | | | | |
| pH, sat. paste | 8.20 | s.u. | | 0.10 | | ASAM10-3.2 | 12/22/08 13:43 / srm |
| Conductivity, sat. paste | 8.14 | mmhos/cm | | 0.01 | | ASA10-3 | 12/22/08 13:43 / srm |
| Saturation | 56.7 | % | | 0.1 | | USDA27a | 12/22/08 13:43 / srm |
| Calcium, sat. paste | 26.6 | meq/L | D | 0.1 | | SW6010B | 12/19/08 12:41 / rlh |
| Magnesium, sat. paste | 95.2 | meq/L | D | 0.1 | | SW6010B | 12/19/08 12:41 / rlh |
| Sodium, sat. paste | 37.5 | meq/L | D | 0.08 | | SW6010B | 12/19/08 12:41 / rlh |
| Sodium Adsorption Ratio (SAR) | 4.81 | unitless | | 0.01 | | Calculation | 12/22/08 13:43 / srm |
| CHEMICAL CHARACTERISTICS | | | | | | | |
| Lime as CaCO3 | 7.1 | % | | 0.1 | | USDA23c | 12/22/08 13:43 / srm |
| EXCHANGEABLES | | | | | | | |
| Cation Exchange Capacity | 26.1 | meq/100g | D | 0.08 | | SW6010B | 12/17/08 05:20 / rlh |
| Exchangeable Sodium Percentage | 1.38 | % | | 0.01 | | USDA20a | 12/22/08 13:43 / srm |
| METALS, AMMONIUM ACETATE EXTRACTABLE | | | | | | | |
| Sodium, extractable | 2.5 | meq/100g | D | 0.0016 | | SW6010B | 12/16/08 08:42 / rlh |

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Marathon Ashland Pipeline
Project: PDC AMPP
Lab ID: B08120246-008
Client Sample ID: WD, 60-72 inches

Report Date: 12/30/08
Collection Date: 11/26/08 08:00
Date Received: 12/02/08
Matrix: Soil

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|--------|-------------|-------------|----------------------|
| PHYSICAL CHARACTERISTICS | | | | | | | |
| Sand | 14 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Silt | 55 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Clay | 31 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Texture | SiCL | | | | | ASA15-5 | 12/22/08 13:43 / srm |
| - C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y) | | | | | | | |
| SATURATED PASTE | | | | | | | |
| pH, sat. paste | 8.10 | s.u. | | 0.10 | | ASAM10-3.2 | 12/22/08 13:43 / srm |
| Conductivity, sat. paste | 7.38 | mmhos/cm | | 0.01 | | ASA10-3 | 12/22/08 13:43 / srm |
| Saturation | 55.6 | % | | 0.1 | | USDA27a | 12/22/08 13:43 / srm |
| Calcium, sat. paste | 23.2 | meq/L | D | 0.1 | | SW6010B | 12/17/08 16:38 / rlh |
| Magnesium, sat. paste | 77.0 | meq/L | D | 0.1 | | SW6010B | 12/17/08 16:38 / rlh |
| Sodium, sat. paste | 36.3 | meq/L | D | 0.08 | | SW6010B | 12/17/08 16:38 / rlh |
| Sodium Adsorption Ratio (SAR) | 5.13 | unitless | | 0.01 | | Calculation | 12/22/08 13:43 / srm |
| CHEMICAL CHARACTERISTICS | | | | | | | |
| Lime as CaCO ₃ | 5.6 | % | | 0.1 | | USDA23c | 12/22/08 13:43 / srm |
| EXCHANGEABLES | | | | | | | |
| Cation Exchange Capacity | 27.0 | meq/100g | D | 0.08 | | SW6010B | 12/17/08 05:24 / rlh |
| Exchangeable Sodium Percentage | 2.83 | % | | 0.01 | | USDA20a | 12/22/08 13:43 / srm |
| METALS, AMMONIUM ACETATE EXTRACTABLE | | | | | | | |
| Sodium, extractable | 2.8 | meq/100g | D | 0.0016 | | SW6010B | 12/16/08 08:46 / rlh |

Report Definitions:

RL - Analyte reporting limit.

QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Marathon Ashland Pipeline
Project: PDC AMPP
Lab ID: B08120246-009
Client Sample ID: WD, 72-96 inches

Report Date: 12/30/08
Collection Date: 11/26/08 08:00
Date Received: 12/02/08
Matrix: Soil

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|--------|-------------|-------------|----------------------|
| PHYSICAL CHARACTERISTICS | | | | | | | |
| Sand | 16 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Silt | 53 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Clay | 31 | % | | 1 | | ASA15-5 | 12/22/08 13:43 / srm |
| Texture | SiCL | | | | | ASA15-5 | 12/22/08 13:43 / srm |
| - C = Clay, S = Sand(y), Si = Silt(y), L = Loam(y) | | | | | | | |
| SATURATED PASTE | | | | | | | |
| pH, sat. paste | 8.10 | s.u. | | 0.10 | | ASAM10-3.2 | 12/22/08 13:43 / srm |
| Conductivity, sat. paste | 7.30 | mmhos/cm | | 0.01 | | ASA10-3 | 12/22/08 13:43 / srm |
| Saturation | 54.7 | % | | 0.1 | | USDA27a | 12/22/08 13:43 / srm |
| Calcium, sat. paste | 23.0 | meq/L | D | 0.1 | | SW6010B | 12/17/08 16:42 / rlh |
| Magnesium, sat. paste | 69.3 | meq/L | D | 0.1 | | SW6010B | 12/17/08 16:42 / rlh |
| Sodium, sat. paste | 40.4 | meq/L | D | 0.08 | | SW6010B | 12/17/08 16:42 / rlh |
| Sodium Adsorption Ratio (SAR) | 5.95 | unitless | | 0.01 | | Calculation | 12/22/08 13:43 / srm |
| CHEMICAL CHARACTERISTICS | | | | | | | |
| Lime as CaCO3 | 4.9 | % | | 0.1 | | USDA23c | 12/22/08 13:43 / srm |
| EXCHANGEABLES | | | | | | | |
| Cation Exchange Capacity | 26.3 | meq/100g | D | 0.08 | | SW6010B | 12/17/08 05:28 / rlh |
| Exchangeable Sodium Percentage | 2.89 | % | | 0.01 | | USDA20a | 12/22/08 13:43 / srm |
| METALS, AMMONIUM ACETATE EXTRACTABLE | | | | | | | |
| Sodium, extractable | 3.0 | meq/100g | D | 0.0016 | | SW6010B | 12/16/08 08:50 / rlh |

Report Definitions:

RL - Analyte reporting limit.

QCL - Quality control limit.

D - RL increased due to sample matrix interference.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.