Piñon Ridge Baseline Sampling Summary

Meteorological Data

Data recovery goal is 90 percent for four consecutive quarters. All sites exceeded this goal with two exceptions (summarized below and grayed in tables):

1 Site 1, 4Q09 evaporation data due to freezing and a shortened period of data collection. However, this data does satisfy the data recovery goal for the year as a whole

2 Site 2, 2Q08 vertical wind speed CFT due to instrument malfunction. However, this instrument is redundant of the vertical wind speed EPS instrument.

SITE 1	Data Recovery by quarter (percent)						
Parameter	**2Q08**	**3Q08**	**4Q08**	**1Q09**	**2Q09**	**3Q09**	**4Q09**
Wind Speed	99.8	100.0	99.7	99.9	99.9	99.9	99.0
Wind Direction	99.8	100.0	99.7	99.9	99.9	99.9	99.0
Sigma Theta Wind	99.8	100.0	99.7	99.9	99.9	99.9	99.0
Vertical Wind Speed EPS Avg	99.8	100.0	99.7	99.9	99.9	99.9	99.2
Vertical Wind Speed EPS Std	99.8	100.0	99.7	99.9	99.9	99.9	99.2
Vertical Wind Speed CFT Avg	99.8	100.0	99.7	99.9	99.9	99.9	98.2
Vertical Wind Speed CFT Std	99.8	100.0	99.7	99.9	99.9	99.9	98.2
2m Temperature	99.8	100.0	99.7	99.9	99.9	99.9	99.9
10m Temperature	99.8	100.0	99.7	99.9	99.9	99.9	99.9
DeltaT Avg	99.8	100.0	99.7	99.9	99.9	99.9	99.9
Precipitation Total	(1)	(1)	(1)	99.8	99.7	99.8	99.8
Relative Humidity Avg	99.8	100.0	99.7	99.9	99.9	99.9	99.9
RH Temperature Avg	99.8	100.0	99.7	99.9	99.9	99.9	99.9
Barometric Pressure	99.8	100.0	99.7	99.9	99.9	99.9	99.9
Solar Radiation Avg	99.8	100.0	99.7	99.9	99.9	99.9	99.9
Evaporation Level Avg	94.2	99.3	90.2	(2)	99.5	98.6	85.9
Gust Speed	99.8	100.0	99.7	99.9	99.9	99.9	99.0
Gust Direction	99.8	100.0	99.7	99.9	99.9	99.9	99.0
Gust Time	99.8	100.0	99.7	99.9	99.9	99.9	99.0

1 The Site 1 precipitation gauge malfunctioned sometime prior to October 12, 2008 so data from the manual rain gauges on site was used for the period of May through October 2008

2 Evaporation gauge was offline for seasonal period (November 1 through March 31 each year)

SITE 2	Data Recovery by quarter (percent)						
Parameter	**2Q08**	**3Q08**	**4Q08**	**1Q09**	**2Q09**	**3Q09**	**4Q09**
Wind Speed	98.9	100.0	99.8	99.9	99.8	99.9	98.7
Wind Direction	98.9	100.0	99.8	99.9	99.8	99.9	98.7
Sigma Theta Wind	98.9	100.0	99.8	99.9	99.8	99.9	98.7
Vertical Wind Speed EPS Avg	98.9	100.0	99.8	99.9	99.8	99.9	99.8
Vertical Wind Speed EPS Std	98.9	100.0	99.8	99.9	99.8	99.9	99.8
Vertical Wind Speed CFT Avg	56.0	100.0	99.8	99.9	99.8	99.9	99.8
Vertical Wind Speed CFT Std	56.0	100.0	99.8	99.9	99.8	99.9	99.8
2m Temperature	98.9	100.0	99.7	99.6	99.7	99.8	99.8
30m Temperature	98.9	100.0	99.6	99.6	99.7	99.9	99.8
DeltaT Avg	98.9	100.0	99.6	99.6	99.6	99.8	99.8
Relative Humidity Avg	98.9	100.0	99.8	99.9	99.8	99.9	99.8
RH Temperature Avg	98.9	100.0	99.8	99.9	99.8	99.9	99.8
Barometric Pressure	98.9	100.0	99.8	99.9	99.8	99.9	99.8
Solar Radiation Avg	98.9	99.9	99.8	99.4	99.8	99.9	99.8
Gust Speed	98.9	100.0	99.8	99.9	99.8	99.9	98.7
Gust Direction	98.9	100.0	99.8	99.9	99.8	99.9	98.7
Gust Time	98.9	100.0	99.8	99.9	99.8	99.9	98.7

Air – High Volume (Tisch) Samplers

Data recovery goal is 80 percent for four consecutive quarters. All sites exceeded this goal.

	Data Recovery by quarter (percent)						
Site	**2Q08**	**3Q08**	**4Q08**	**1Q09**	**2Q09**	**3Q09**	**4Q09**
Site 1	99.6	97.7	99.8	99.9	99.7	99.5	87.0
Site 2	98.9	95.8	99.8	99.9	99.5	99.7	99.8
Site 3	98.0	95.9	98.7	99.9	98.2	99.8	99.9
Site 4	99.8	97.6	99.9	99.9	99.7	99.8	96.3
Site 5	99.5	97.2	99.9	99.9	99.7	99.8	99.9

Air – PM10 Samplers

Data recovery goal is 75 percent for four consecutive quarters. All sites exceeded this goal.

Extra sample event

	Data Recovery by quarter (percent)						
Site	**2Q08**	**3Q08**	**4Q08**	**1Q09**	**2Q09**	**3Q09**	**4Q09**
Site 1	106.7	100.0	100.0	100.0	100.0	93.3	80.0
Site 2	93.3	100.0	100.0	100.0	100.0	100.0	100.0

Radon Data

Radon data was collected per quarter and shown below. Collection involved placement of track-etch type detectors above the platform at each site (approximately 10 feet above ground level). The data recovery goal was to collect four consecutive quarters of data. All sites exceeded this goal.

	Data Collection by quarter						
Site	**2Q08**	**3Q08**	**4Q08**	**1Q09**	**2Q09**	**3Q09**	**4Q09**
Site 1	X	X	X	X	X	X	X
Site 2	X	X	X	X	X	X	X
Site 3	X	X	X	X	X	X	X
Site 4	X	X	X	X	X	X	X
Site 5	X	X	X	X	X	(1)	X

X Sampled and analyzed

1 Analytical data unusable because sampler fell to ground sometime during quarter and analysis indicated an abnormally high activity level

Environmental Gamma Dosimetry Data

Environmental gamma dosimetry data was collected per quarter and shown below. Collection involved placement of environmental passive dosimeters below the platform at each site (approximately 8 to 9 feet above ground level). The data recovery goal was to collect four consecutive quarters of data. All sites exceeded this goal.

	Data Collection by quarter					
Site	**3Q08**	**4Q08**	**1Q09**	**2Q09**	**3Q09**	**4Q09**
Site 1	X	X	X	X	X	X
Site 2	X	X	X	X	X	X
Site 3	X	X	X	X	X	X
Site 4	X	X	X	X	X	X
Site 5	X	X	X	X	X	X

X Sampled and analyzed

Samples were collected and analyzed for the period of March 8 to July 1, 2008. However, the data was not used because of the extended time of the exposure period.

Surface Water Data

Data recovery goal is to collect all samples for four consecutive quarters with one exception. The exception is that runoff samples due to snowmelt would not be required to be collected more frequently than once in a two week period. The sampling program was implemented in February 2008.

	Number of Samples Collected by quarter							
Site	**1Q08[1]**	**2Q08**	**3Q08**	**4Q08**	**1Q09**	**2Q09**	**3Q09**	**4Q09**
S-1	1	0	1	1	1	4	2	0
S-2	1	0	0	0	1	0	0	0
S-3	1	0	1	1	1	3	2	0
S-4	0	0	0	0	0	1	0	0

1 Samples were collected on February 12, 2008 during installation of the samplers

Groundwater Data

Original data recovery goal was to collect one sample from each well for four consecutive quarters. All well sites exceeded this goal. The monitoring schedule was reduced to one water level measurement per quarter and one sample collection per year for each well effective 11/23/09.

	Data Collection by quarter								
Well ID	**4Q07**	**1Q08**	**2Q08**	**3Q08**	**4Q08**	**1Q09**	**2Q09**	**3Q09**	**4Q09**
MW-1	NS	NS	NS	NS	NS	NS	NS	NS	WL
MW-2	NS	NS	NS	NS	NS	NS	NS	NS	WL
MW-3	NS	NS	NS	NS	NS	NS	NS	NS	WL
MW-4	NS	NS	NS	NS	NS	NS	NS	NS	WL
MW-5	NS	X	X	X	X	X	X	X	WL
MW-6	X	X	X	X	X	X	X	X	WL
MW-7	NI	NI	X	X	X	X	X	X	WL
MW-8B	NI	NI	NI	X	X	X	X	X	WL
MW-9	NI	NI	NI	X	NS	NS	NS	NS	WL
PW-1	NI	NI	NI	X	X	X	X	X	WL
PW-2	NI	NI	NI	X	X	X	X	X	WL
PW-3	NI	NI	NI	X	X	X	X	X	WL

NI Well not installed
NS Insufficient water or recharge rate to sample
WL Water level measurement only
X Sampled and analyzed