

**From:** Dana Dean  
**To:** Mark Reynolds  
**Date:** 12/30/2005 2:50:49 PM  
**Subject:** Re: Water Monitoring

Thanks, Mark.

I have uploaded all of the information for Bear Canyon and Hiawatha from the pipeline into the database. Reports are attached.

As a reminder, according to parameters set by the assigned hydrologist, you are still missing the following samples:

Bear Canyon

SBC-11 August sample  
UTG040006-004 July, August, September samples  
MH-1 July Sample

Hiawatha

ST-3 July sample  
UT0023094-002 - flow, pH for July 30 sample

Please let me know if you have any questions.

Thank you,

Dana Dean, P.E.  
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Utah Division of Oil, Gas, and Mining  
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>>> Mark Reynolds <mreynolds@etv.net> 12/30/2005 2:23 PM >>>  
The Bear Canyon and Hiawatha water monitoring is in the pipeline ready to upload.

I sent an earlier email and cc Pam, but I got your email address wrong.

**CC:** Dave Darby; Jim Smith; Joe Helfrich; Pete Hess

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## OFFICIAL UPLOAD REPORT

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**OWNER: HIAWATHA COAL CO**  
**MINE: HIAWATHA COMPLEX**

**SITE TYPE: Spring**

SITE: SP-11

Laboratory: CTE 59-27708 Period:OPER  
Sample Date: 07/07/2005 Time: 12:21 Reported: 07/26/2005 Received: 07/11/2005

SITE: SP-13

Laboratory: CTE 59-27707 Period:OPER  
Sample Date: 07/07/2005 Time: 14:01 Reported: 07/26/2005 Received: 07/11/2005

**SITE TYPE: Stream**

SITE: ST-1

Laboratory: FLD 20050707-9 Period:OPER  
Sample Date: 07/07/2005 Time: 10:36 Reported: Received:

Laboratory: FLD 20050825-8 Period:OPER  
Sample Date: 08/25/2005 Time: 12:33 Reported: Received:

Laboratory: CTE 59-28026 Period:OPER  
Sample Date: 09/23/2005 Time: 12:43 Reported: 10/20/2005 Received: 09/26/2005

SITE: ST-2

Laboratory: FLD 20050707-A Period:OPER  
Sample Date: 07/07/2005 Time: 11:00 Reported: Received:

Laboratory: FLD 20050825-9 Period:OPER  
Sample Date: 08/25/2005 Time: 11:35 Reported: Received:

Laboratory: CTE 59-28027 Period:OPER  
Sample Date: 09/23/2005 Time: 13:39 Reported: 10/20/2005 Received: 09/26/2005

SITE: ST-2B

Laboratory: FLD 20050707-B Period:OPER  
Sample Date: 07/07/2005 Time: 10:32 Reported: Received:

Laboratory: FLD 20050825-C Period:OPER  
Sample Date: 08/25/2005 Time: 12:41 Reported: Received:

Laboratory: CTE 59-28031 Period:OPER  
Sample Date: 09/23/2005 Time: 13:09 Reported: 10/27/2005 Received: 09/26/2005

SITE: ST-3

Laboratory: FLD 20050101-A Period:OPER  
Sample Date: 01/01/2005 Time: 12:00 Reported: Received:

Laboratory: FLD 20050825-5 Period:OPER  
Sample Date: 08/25/2005 Time: 13:54 Reported: Received:

Laboratory: CTE 59-28028 Period:OPER  
Sample Date: 09/23/2005 Time: 14:21 Reported: 10/20/2005 Received: 09/26/2005

SITE: ST-3A

Laboratory: FLD 20050707-5 Period:OPER  
Sample Date: 07/07/2005 Time: 14:11 Reported: Received:

NO FLOW Date: 08/25/2005 Time: 14:22

NO FLOW Date: 09/23/2005 Time: 15:02

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SITE: ST-3B

NO FLOW Date: 07/07/2005 Time: 13:50

NO FLOW Date: 08/25/2005 Time: 14:10

NO FLOW Date: 09/23/2005 Time: 15:07

SITE: ST-4

Laboratory: FLD 20050707-6 Period:OPER  
 Sample Date: 07/07/2005 Time: 15:39 Reported: Received:

Laboratory: FLD 20050825-6 Period:OPER  
 Sample Date: 08/25/2005 Time: 11:51 Reported: Received:

Laboratory: CTE 59-28029 Period:OPER  
 Sample Date: 09/23/2005 Time: 11:37 Reported: 10/25/2005 Received: 09/26/2005

SITE: ST-4A

Laboratory: FLD 20050707-7 Period:OPER  
 Sample Date: 07/07/2005 Time: 15:18 Reported: Received:

NO FLOW Date: 08/25/2005 Time: 14:58

NO FLOW Date: 09/23/2005 Time: 15:59

SITE: ST-4B

Laboratory: FLD 20050707-8 Period:OPER  
 Sample Date: 07/07/2005 Time: 14:50 Reported: Received:

NO FLOW Date: 08/25/2005 Time: 14:46

NO FLOW Date: 09/23/2005 Time: 15:25

SITE: ST-5

Laboratory: FLD 20050730-1 Period:OPER  
 Sample Date: 07/30/2005 Time: 17:00 Reported: Received:

Laboratory: FLD 20050825-7 Period:OPER  
 Sample Date: 08/25/2005 Time: 15:14 Reported: Received:

Laboratory: CTE 59-28030 Period:OPER  
 Sample Date: 09/23/2005 Time: 15:38 Reported: 10/25/2005 Received: 09/26/2005

**SITE TYPE: UPDES Permit discharge point**

SITE: UT0023094-001

Laboratory: FLD 20050707-C Period:UPDS  
 Sample Date: 07/07/2005 Time: 16:26 Reported: Received:

Laboratory: FLD 20050825-A Period:OPER  
 Sample Date: 08/25/2005 Time: 11:10 Reported: Received:

Laboratory: FLD 20050923-7 Period:UPDS  
 Sample Date: 09/23/2005 Time: 11:09 Reported: Received:

SITE: UT0023094-002

Laboratory: FLD 20050730-2 Period:OPER  
 Sample Date: 07/30/2005 Time: 16:30 Reported: Received:

Laboratory: FLD 20050825-B Period:OPER  
 Sample Date: 08/25/2005 Time: 11:35 Reported: Received:

Laboratory: FLD 20050923-8 Period:UPDS  
 Sample Date: 09/23/2005 Time: 11:30 Reported: Received:

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SITE: UT0023094-003  
NO FLOW Date: 07/07/2005 Time: 10:00  
NO FLOW Date: 08/25/2005 Time: 12:06  
NO FLOW Date: 09/23/2005 Time: 11:02

SITE: UT0023094-004  
NO FLOW Date: 07/07/2005 Time: 10:06  
NO FLOW Date: 08/25/2005 Time: 12:11  
NO FLOW Date: 09/23/2005 Time: 11:08

SITE: UT0023094-005  
NO FLOW Date: 07/07/2005 Time: 10:15  
NO FLOW Date: 08/25/2005 Time: 12:16  
NO FLOW Date: 09/23/2005 Time: 11:13

SITE: UT0023094-006  
NO FLOW Date: 07/07/2005 Time: 10:29  
NO FLOW Date: 08/25/2005 Time: 12:24  
NO FLOW Date: 09/23/2005 Time: 11:20

SITE: UT0023094-007  
NO FLOW Date: 07/07/2005 Time: 10:35  
NO FLOW Date: 08/25/2005 Time: 12:30  
NO FLOW Date: 09/23/2005 Time: 11:27

SITE: UT0023094-008  
NO FLOW Date: 07/07/2005 Time: 10:40  
NO FLOW Date: 08/25/2005 Time: 12:35  
NO FLOW Date: 09/23/2005 Time: 11:34

SITE: UT0023094-009  
NO FLOW Date: 07/07/2005 Time: 10:46  
NO FLOW Date: 08/25/2005 Time: 12:42  
NO FLOW Date: 09/23/2005 Time: 11:41

SITE: UT0023094-011  
NO FLOW Date: 07/07/2005 Time: 10:52  
NO FLOW Date: 08/25/2005 Time: 12:47  
NO FLOW Date: 09/23/2005 Time: 11:49

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**OWNER: CO-OP MINING CO.**  
**MINE: BEAR CANYON**

**SITE TYPE: Other: in mine, roof drippers**

SITE: SBC9A

Laboratory: CTE 59-27905 Period:OPER  
Sample Date: 08/24/2005 Time: 14:24 Reported: 09/09/2005 Received: 08/29/2005

**SITE TYPE: Spring**

SITE: SBC-12

Laboratory: FLD 20050729-1 Period:OPER  
Sample Date: 07/29/2005 Time: 10:30 Reported: Received:

Laboratory: FLD 20050823-2 Period:OPER  
Sample Date: 08/23/2005 Time: 10:30 Reported: Received:

SITE: SBC-14

Laboratory: CTE 59-27904 Period:OPER  
Sample Date: 08/24/2005 Time: 15:48 Reported: 09/09/2005 Received: 08/29/2005

SITE: SBC-15

Laboratory: FLD 20050729-7 Period:OPER  
Sample Date: 07/29/2005 Time: 10:10 Reported: Received:

Laboratory: FLD 20050823-4 Period:OPER  
Sample Date: 08/23/2005 Time: 10:00 Reported: Received:

SITE: SBC-16

Laboratory: FLD 20050729-8 Period:OPER  
Sample Date: 07/29/2005 Time: 10:20 Reported: Received:

Laboratory: FLD 20050823-5 Period:OPER  
Sample Date: 08/23/2005 Time: 03:00 Reported: Received:

SITE: SBC-17

Laboratory: CTE 59-27909 Period:OPER  
Sample Date: 08/24/2005 Time: 13:10 Reported: 09/09/2005 Received: 08/29/2005

SITE: SBC-3

Laboratory: CTE 59-27914 Period:OPER  
Sample Date: 08/29/2005 Time: 16:00 Reported: 10/04/2005 Received: 08/30/2005

SITE: SBC-4

Laboratory: CTE 59-27902 Period:OPER  
Sample Date: 08/29/2005 Time: 09:20 Reported: 09/09/2005 Received: 08/29/2005

SITE: SBC-5

Laboratory: CTE 59-27903 Period:OPER  
Sample Date: 08/29/2005 Time: 09:30 Reported: 09/09/2005 Received: 08/29/2005

SITE: SMH-1

Laboratory: FLD 20050729-2 Period:OPER  
Sample Date: 07/29/2005 Time: 11:50 Reported: Received:

Laboratory: FLD 20050822-2 Period:OPER  
Sample Date: 08/22/2005 Time: 03:44 Reported: Received:

SITE: SMH-2

Laboratory: FLD 20050729-3 Period:OPER  
Sample Date: 07/29/2005 Time: 11:45 Reported: Received:

Laboratory: FLD 20050822-3 Period:OPER  
Sample Date: 08/22/2005 Time: 03:34 Reported: Received:

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SITE: SMH-3

Laboratory: FLD 20050729-4 Period:OPER  
Sample Date: 07/29/2005 Time: 12:00 Reported: Received:

Laboratory: FLD 20050822-4 Period:OPER  
Sample Date: 08/22/2005 Time: 03:50 Reported: Received:

SITE: SMH-4

Laboratory: FLD 20050729-5 Period:OPER  
Sample Date: 07/29/2005 Time: 10:00 Reported: Received:

Laboratory: FLD 20050822-5 Period:OPER  
Sample Date: 08/22/2005 Time: 04:24 Reported: Received:

**SITE TYPE: Stream**

SITE: BC-1

Laboratory: FLD 20050708-5 Period:OPER  
Sample Date: 07/08/2005 Time: 10:00 Reported: Received:

Laboratory: CTE 59-27912 Period:OPER  
Sample Date: 08/29/2005 Time: 18:30 Reported: 09/01/2005 Received: 08/30/2005

Laboratory: FLD 20050921-1 Period:OPER  
Sample Date: 09/21/2005 Time: 11:03 Reported: Received:

SITE: BC-2

Laboratory: FLD 20050708-6 Period:OPER  
Sample Date: 07/08/2005 Time: 10:15 Reported: Received:

Laboratory: CTE 59-27906 Period:OPER  
Sample Date: 08/24/2005 Time: 14:02 Reported: 09/09/2005 Received: 08/29/2005

Laboratory: FLD 20050921-2 Period:OPER  
Sample Date: 09/21/2005 Time: 11:52 Reported: Received:

SITE: BC-3

Laboratory: FLD 20050708-7 Period:OPER  
Sample Date: 07/08/2005 Time: 10:20 Reported: Received:

Laboratory: CTE 59-27908 Period:OPER  
Sample Date: 08/24/2005 Time: 14:48 Reported: 08/29/2005 Received: 08/29/2005

Laboratory: FLD 20050921-3 Period:OPER  
Sample Date: 09/21/2005 Time: 11:33 Reported: Received:

SITE: BC-4

NO FLOW Date: 07/29/2005 Time: 10:00

NO FLOW Date: 08/29/2005 Time: 15:50

Laboratory: FLD 20050921-4 Period:OPER  
Sample Date: 09/21/2005 Time: 11:43 Reported: Received:

SITE: FC-1

Laboratory: FLD 20050729-6 Period:OPER  
Sample Date: 07/29/2005 Time: 10:00 Reported: Received:

Laboratory: FLD 20050823-3 Period:OPER  
Sample Date: 08/23/2005 Time: 11:00 Reported: Received:

SITE: MH-1

Laboratory: FLD 20050822-1 Period:OPER  
Sample Date: 08/22/2005 Time: 14:58 Reported: Received:

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**SITE TYPE: UPDES Permit discharge point**

SITE: UTG040006-002  
 NO FLOW Date: 07/07/2005 Time: 11:45  
 NO FLOW Date: 08/23/2005 Time: 10:50  
 NO FLOW Date: 09/20/2005 Time: 12:32

SITE: UTG040006-003  
 NO FLOW Date: 07/07/2005 Time: 11:15  
 NO FLOW Date: 08/23/2005 Time: 10:30  
 NO FLOW Date: 09/20/2005 Time: 12:20

SITE: UTG040006-006  
 NO FLOW Date: 07/07/2005 Time: 11:00  
 NO FLOW Date: 08/23/2005 Time: 10:00  
 NO FLOW Date: 09/20/2005 Time: 12:00

SITE: UTG040006-007  
 NO FLOW Date: 07/07/2005 Time: 12:05  
 NO FLOW Date: 08/23/2005 Time: 11:08  
 NO FLOW Date: 09/20/2005 Time: 12:50

**SITE TYPE: Well**

SITE: MW-114  
 Laboratory: FLD 20050707-3 Period:OPER  
 Sample Date: 07/07/2005 Time: 11:00 Reported: Received:  
 Laboratory: FLD 20050826-8 Period:OPER  
 Sample Date: 08/26/2005 Time: 12:00 Reported: Received:  
 Laboratory: FLD 20050920-4 Period:OPER  
 Sample Date: 09/20/2005 Time: 13:06 Reported: Received:

SITE: MW-117  
 Laboratory: FLD 20050707-4 Period:OPER  
 Sample Date: 07/07/2005 Time: 12:01 Reported: Received:  
 Laboratory: FLD 20050826-9 Period:OPER  
 Sample Date: 08/26/2005 Time: 12:16 Reported: Received:  
 Laboratory: FLD 20050920-5 Period:OPER  
 Sample Date: 09/20/2005 Time: 13:23 Reported: Received:

SITE: SDH-2  
 Laboratory: FLD 20050707-1 Period:OPER  
 Sample Date: 07/07/2005 Time: 11:22 Reported: Received:  
 Laboratory: FLD 20050826-6 Period:OPER  
 Sample Date: 08/26/2005 Time: 12:34 Reported: Received:  
 Laboratory: FLD 20050920-2 Period:OPER  
 Sample Date: 09/20/2005 Time: 13:36 Reported: Received:

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SITE: SDH-3

Laboratory: FLD 20050707-2 Period:OPER  
Sample Date: 07/07/2005 Time: 11:45 Reported: Received:

Laboratory: FLD 20050826-7 Period:OPER  
Sample Date: 08/26/2005 Time: 15:00 Reported: Received:

Laboratory: FLD 20050920-3 Period:OPER  
Sample Date: 09/20/2005 Time: 13:59 Reported: Received: