

2007 data

JB#2

	in-flow to system	out-flow from system	% reduction
Aluminum	19,000 UG/L	304 UG/L (.304 MG/L)	98.4%
Iron	149 MG/L	41 MG/L	72.5%
pH	3.9	6.5	
Alkalinity	0.0	92.2 MG/L (120 - 180 normal in our area)	
Hot Acidity	329.2 MG/L	6 MG/L	98.2%
Manganese	5.12 MG/L	5.17 MG/L	no change
Sulfates	1,071 MG/L	1,189 MG/L	slight increase

Hamilton:

Aluminum	1,540 UG/L	344 UG/L	88%
Iron	550 MG/L	28 MG/L	95%
pH	5.5	3.4	decrease
Alkalinity	28.8 MG/L	0.0	zapped
Hot Acidity	353 MG/L	94	73% reduction
Manganese	5.84 MG/L	7.24 MG/L	increase of 1.4
Sulfates	918 MG/L	778.6 MG/l	15%

Washington County Conservation District

From: Shah, Pj [pshah@state.pa.us]
Sent: Friday, June 22, 2007 9:41 AM
To: Means, Brent; Brent Means (E-mail); washcocd@yahoo.com
Cc: Shah, Pj
Subject: JB#2 and Hamilton WQ data for 6-8-07

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Analytical Report FOR
Abandoned Mine Reclamation

Sample ID: 7329 801 06/08/2007 Status: IN PROCESS

Collector: Daniel L Weaver
Collected: 06/08/2007 10:55:00 AM

County: Washington State: PA
Municipality: Smith Twp

MP ID: 1 82464 MP Type: Discharge
MP Location Description: MINE DISCHARGE
* Alias ID Project/Facility
* 1 AMD63(0657)

Location: MINE DISCHARGE
Reason: Project
Project: AMD63(0657)1 JB #2 SITE

80 DEGREES, MUGGY, STREAMS CLEAR.

Laboratory Sample ID: I2007021855 IN PROCESS
Standard Analysis: 711

Test/CAS# - Description	Reported Results	Completed
00530 T SUSP SOLID	12 MG/L	06/19/2007
01045A IRON T	149000.000 UG/L	06/20/2007
00410 ALKALINITY	0.0 MG/L	06/13/2007
** Comment **	Alkalinity Measured to Endpoint 4.5	
00945A SULFATE T	1070.9 MG/L	06/14/2007
00916A CALCIUM T	240.000 MG/L	06/20/2007
00900 Hardness T	958 MG/L	06/20/2007
01105A ALUMINUM T	19000.000 UG/L	06/20/2007
00403 pH	3.9 pH units	06/13/2007
** Comment **	Time Limit For Test Exceeded	
01055A MANGANESE T	5121.000 UG/L	06/12/2007
00927A MAGNESIUM T	87.000 MG/L	06/20/2007
70508 HOT ACIDITY	329.20 MG/L	06/19/2007
** Comment **	Acidity Measured to Endpoint 8.3	

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Analytical Report FOR
Abandoned Mine Reclamation

Sample ID: 7329 802 06/08/2007 Status: IN PROCESS

Collector: Daniel L Weaver
Collected: 06/08/2007 11:00:00 AM

County: Washington
Municipality: Smith Twp

State: PA

MP ID: 2 82465 MP Type: Treatment Facility
MP Location Description: OUTLET OF COLLECTION BASIN
* Alias ID Project/Facility

* 2 AMD63(0657)

Location: OUTLET OF COLLECTION BASIN
Reason: Project
Project: AMD63(0657)1 JB #2 SITE

80 DEGREES, MUGGY, STREAMS CLEAR.

Laboratory Sample ID: I2007021856
Standard Analysis: 711

IN PROCESS

Test/CAS# - Description	Reported Results	Completed
00530 T SUSP SOLID	8 MG/L	06/19/2007
01045A IRON T	135000.000 UG/L	06/20/2007
00410 ALKALINITY	<0.0 MG/L	06/13/2007
** Comment **	Alkalinity Measured to Endpoint 4.5	
00945A SULFATE T	1167.4 MG/L	06/14/2007
00916A CALCIUM T	220.000 MG/L	06/20/2007
00900 Hardness T	878 MG/L	06/20/2007
01105A ALUMINUM T	17300.000 UG/L	06/20/2007
00403 pH	4.2 pH units	06/13/2007
** Comment **	Time Limit For Test Exceeded	
01055A MANGANESE T	4991.000 UG/L	06/12/2007
00927A MAGNESIUM T	79.500 MG/L	06/20/2007
70508 HOT ACIDITY	338.20 MG/L	06/19/2007
** Comment **	Acidity Measured to Endpoint 8.3	

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Abandoned Mine Reclamation

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Sample ID: 7329 803 06/08/2007

Status: IN PROCESS

Collector: Daniel L Weaver
Collected: 06/08/2007 11:00:00 AM

County: Washington
Municipality: Smith Twp

State: PA

MP ID: 3 82466 MP Type: Treatment Facility
MP Location Description: OUTLET OF WETLANDS
* Alias ID Project/Facility

* 3 AMD63(0657)

Location: OUTLET OF WETLANDS
Reason: Project
Project: AMD63(0657)1 JB #2 SITE

80 DEGREES, MUGGY, STREAMS CLEAR.

Laboratory Sample ID: I2007021857
Standard Analysis: 711

IN PROCESS

Test/CAS# - Description	Reported Results	Completed
00530 T SUSP SOLID	24 MG/L	06/19/2007
01045A IRON T	38500.000 UG/L	06/20/2007
00410 ALKALINITY	84.8 MG/L	06/13/2007
** Comment ** Alkalinity Measured to Endpoint 4.5		
00945A SULFATE T	1177.9 MG/L	06/14/2007
00916A CALCIUM T	366.000 MG/L	06/20/2007
00900 Hardness T	1263 MG/L	06/20/2007
01105A ALUMINUM T	<200 UG/L	06/12/2007
00403 pH	6.5 pH units	06/13/2007
** Comment ** Time Limit For Test Exceeded		
01055A MANGANESE T	5161.000 UG/L	06/12/2007
00927A MAGNESIUM T	84.500 MG/L	06/20/2007
70508 HOT ACIDITY	4.80 MG/L	06/19/2007
** Comment ** Acidity Measured to Endpoint 8.3		

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Analytical Report FOR
Abandoned Mine Reclamation

Sample ID: 7329 804 06/08/2007 Status: IN PROCESS

Collector: Daniel L Weaver
Collected: 06/08/2007 11:10:00 AM

County: Washington State: PA
Municipality: Smith Twp

MP ID: 4 82467 MP Type: Treatment Facility
MP Location Description: OUTLET SED POND
* Alias ID Project/Facility

* 4 AMD63(0657)

Location: OUTLET SED POND
Reason: Project
Project: AMD63(0657)1 JB #2 SITE

80 DEGREES, MUGGY, STREAMS CLEAR.

Laboratory Sample ID: I2007021858 IN PROCESS
Standard Analysis: 711

Test/CAS# - Description	Reported Results	Completed
00530 T SUSP SOLID	20 MG/L	06/19/2007
01045A IRON T	41400.000 UG/L	06/20/2007
00410 ALKALINITY	92.2 MG/L	06/13/2007
** Comment ** Alkalinity Measured to Endpoint 4.5		
00945A SULFATE T	1189.1 MG/L	06/14/2007
00916A CALCIUM T	344.000 MG/L	06/20/2007
00900 Hardness T	1188 MG/L	06/20/2007
01105A ALUMINUM T	304.000 UG/L	06/12/2007
00403 pH	6.5 pH units	06/13/2007
** Comment ** Time Limit For Test Exceeded		
01055A MANGANESE T	5173.000 UG/L	06/12/2007
00927A MAGNESIUM T	79.500 MG/L	06/20/2007
70508 HOT ACIDITY	6.00 MG/L	06/19/2007
** Comment ** Acidity Measured to Endpoint 8.3		

Sample ID: 7329 805 06/08/2007 Status: IN PROCESS

Collector: Daniel L Weaver
Collected: 06/08/2007 11:20:00 AM

County: Washington State: PA
Municipality: Smith Twp

MP ID: 5 82468 MP Type: Stream
MP Location Description: STREAM ALONG SYSTEM
* Alias ID Project/Facility

* 5 AMD63(0657)

Location: STREAM ALONG SYSTEM
Reason: Project
Project: AMD63(0657)1 JB #2 SITE

80 DEGREES, MUGGY, STREAMS CLEAR. SMALL FISH IN SPITE OF ORANGE
STREAM BOTTOM.

Laboratory Sample ID: I2007021859 IN PROCESS
Standard Analysis: 711

Test/CAS# - Description	Reported Results	Completed
00530 T SUSP SOLID	40 MG/L	06/19/2007
01045A IRON T	45600.000 UG/L	06/20/2007
00410 ALKALINITY	45.2 MG/L	06/13/2007
** Comment **	Alkalinity Measured to Endpoint 4.5	
00945A SULFATE T	601.7 MG/L	06/14/2007
00916A CALCIUM T	135.000 MG/L	06/20/2007
00900 Hardness T	522 MG/L	06/20/2007
01105A ALUMINUM T	3557.000 UG/L	06/12/2007
00403 pH	6.4 pH units	06/13/2007
** Comment **	Time Limit For Test Exceeded	
01055A MANGANESE T	1743.000 UG/L	06/12/2007
00927A MAGNESIUM T	44.900 MG/L	06/20/2007
70508 HOT ACIDITY	54.80 MG/L	06/19/2007
** Comment **	Acidity Measured to Endpoint 8.3	

Sample ID: 7329 806 06/08/2007 Status: IN PROCESS

Collector: Daniel L Weaver
Collected: 06/08/2007 11:30:00 AM

County: Washington State: PA
Municipality: Smith Twp

MP ID: 6 82503 MP Type: Stream
MP Location Description: STREAM BELOW SYSTEM
* Alias ID Project/Facility

* 6 AMD63(0657)

Location: STREAM BELOW SYSTEM
Reason: Project
Project: AMD63(0657)1 JB #2 SITE

80 DEGREES, MUGGY, STREAMS CLEAR.

Laboratory Sample ID: I2007021860 IN PROCESS
Standard Analysis: 711

Test/CAS# - Description	Reported Results	Completed
00530 T SUSP SOLID	28 MG/L	06/19/2007
01045A IRON T	43800.000 UG/L	06/20/2007
00410 ALKALINITY	46.0 MG/L	06/13/2007
** Comment ** Alkalinity Measured to Endpoint 4.5		
00945A SULFATE T	644.3 MG/L	06/14/2007
00916A CALCIUM T	150.000 MG/L	06/20/2007
00900 Hardness T	572 MG/L	06/20/2007
01105A ALUMINUM T	2736.000 UG/L	06/12/2007
00403 pH	6.4 pH units	06/13/2007
** Comment ** Time Limit For Test Exceeded		
01055A MANGANESE T	2065.000 UG/L	06/12/2007
00927A MAGNESIUM T	47.700 MG/L	06/20/2007
70508 HOT ACIDITY	51.60 MG/L	06/19/2007
** Comment ** Acidity Measured to Endpoint 8.3		

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Sample ID: 7329 901 06/08/2007 Status: IN PROCESS

Collector: Daniel L Weaver
Collected: 06/08/2007 09:50:00 AM

County: Allegheny State: PA
Municipality: Findlay Twp

MP ID: RAWDIS 78526 MP Type: Drill Hole
MP Location Description: ABOVE WETLANDS
* Alias ID Project/Facility

* RAWDIS HAMILTON AM

Location: ABOVE WETLANDS
Reason: Project
Project: HAMILTON AMD HAMILTON AMD SITE

80 DEGREES, SUN/CLOUDS.

Laboratory Sample ID: I2007021866 IN PROCESS
Standard Analysis: 711

Test/CAS# - Description	Reported Results	Completed
00530 T SUSP SOLID	342 MG/L	06/19/2007
01045A IRON T	550000.000 UG/L	06/20/2007
00410 ALKALINITY	28.8 MG/L	06/13/2007
** Comment ** Alkalinity Measured to Endpoint 4.5		

00945A SULFATE T 942.2 MG/L 06/14/2007
 00916A CALCIUM T 159.000 MG/L 06/20/2007
 00900 Hardness T 680 MG/L 06/20/2007
 01105A ALUMINUM T 1540.000 UG/L 06/12/2007
 00403 pH 5.5 pH units 06/13/2007
 ** Comment ** Time Limit For Test Exceeded

01055A MANGANESE T 5843.000 UG/L 06/12/2007
 00927A MAGNESIUM T 68.500 MG/L 06/20/2007
 70508 HOT ACIDITY 353.40 MG/L 06/19/2007
 ** Comment ** Acidity Measured to Endpoint 8.3

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 Analytical Report FOR
 Abandoned Mine Reclamation

Sample ID: 7329 902 06/08/2007 Status: COMPLETED

Collector: Daniel L Weaver
 Collected: 06/08/2007 09:55:00 AM

County: Allegheny State: PA
 Municipality: Findlay Twp

 Location: NOT INDICATED
 Reason: Project
 Project: HAMILTON AMD HAMILTON AMD SITE

80 DEGREES, SUN/CLOUDS. MP1

Laboratory Sample ID: I2007021867 COMPLETED
 Standard Analysis: 711

Test/CAS# - Description	Reported Results	Completed
00530 T SUSP SOLID	70 MG/L	06/19/2007
01045A IRON T	233000.000 UG/L	06/20/2007
00410 ALKALINITY	11.2 MG/L	06/13/2007
** Comment ** Alkalinity Measured to Endpoint 4.5		
00945A SULFATE T	917.7 MG/L	06/14/2007
00916A CALCIUM T	142.000 MG/L	06/20/2007
01047A FERROUS IRON	Cancelled	06/11/2007
** Comment ** No Separate Sample Received		
01105A ALUMINUM T	<200 UG/L	06/12/2007
00403 pH	5.6 pH units	06/13/2007
** Comment ** Time Limit For Test Exceeded		
01055A MANGANESE T	6275.000 UG/L	06/12/2007
00927A MAGNESIUM T	59.000 MG/L	06/20/2007
00900 Hardness T	598 MG/L	06/20/2007
70508 HOT ACIDITY	310.80 MG/L	06/19/2007
** Comment ** Acidity Measured to Endpoint 8.3		

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 Analytical Report FOR
 Abandoned Mine Reclamation

Sample ID: 7329 903 06/08/2007 Status: IN PROCESS

Collector: Daniel L Weaver
 Collected: 06/08/2007 10:00:00 AM

County: Allegheny
Municipality: Findlay Twp

State: PA

MP ID: MP1A 78527 MP Type: Mine Drainage Seep
MP Location Description: BELOW WETLANDS
* Alias ID Project/Facility
* MP1A HAMILTON AM

Location: BELOW WETLANDS
Reason: Project
Project: HAMILTON AMD HAMILTON AMD SITE
80 DEGREES, SUN/CLOUDS.

Laboratory Sample ID: I2007021868 IN PROCESS
Standard Analysis: 711

Test/CAS# - Description	Reported Results	Completed
00530 T SUSP SOLID	26 MG/L	06/19/2007
01045A IRON T	105000.000 UG/L	06/20/2007
00410 ALKALINITY	37.8 MG/L	06/13/2007
** Comment **	Alkalinity Measured to Endpoint 4.5	
00945A SULFATE T	851.2 MG/L	06/14/2007
00916A CALCIUM T	198.000 MG/L	06/20/2007
00900 Hardness T	738 MG/L	06/20/2007
01105A ALUMINUM T	419.000 UG/L	06/12/2007
00403 pH	6.2 pH units	06/13/2007
** Comment **	Time Limit For Test Exceeded	
01055A MANGANESE T	7426.000 UG/L	06/12/2007
00927A MAGNESIUM T	59.000 MG/L	06/20/2007
70508 HOT ACIDITY	125.80 MG/L	06/19/2007
** Comment **	Acidity Measured to Endpoint 8.3	

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Sample ID: 7329 904 06/08/2007 Status: IN PROCESS

Collector: Daniel L Weaver
Collected: 06/08/2007 10:05:00 AM

County: Allegheny State: PA
Municipality: Findlay Twp

MP ID: MP2 78529 MP Type: Sediment Pond
MP Location Description: EFFLUENT OF SED POND
* Alias ID Project/Facility
* MP2 HAMILTON AM

Location: EFFLUENT OF SED POND
Reason: Project
Project: HAMILTON AMD HAMILTON AMD SITE
80 DEGREES, SUN/CLOUDS.

Laboratory Sample ID: I2007021869 IN PROCESS
Standard Analysis: 711

Test/CAS# - Description	Reported Results	Completed
00530 T SUSP SOLID	16 MG/L	06/19/2007
01045A IRON T	28600.000 UG/L	06/20/2007
00410 ALKALINITY	0.0 MG/L	06/13/2007
** Comment ** Alkalinity Measured to Endpoint 4.5		
00945A SULFATE T	778.6 MG/L	06/14/2007
00916A CALCIUM T	206.000 MG/L	06/20/2007
00900 Hardness T	762 MG/L	06/20/2007
01105A ALUMINUM T	344.000 UG/L	06/12/2007
00403 pH	3.4 pH units	06/13/2007
** Comment ** Time Limit For Test Exceeded		
01055A MANGANESE T	7245.000 UG/L	06/12/2007
00927A MAGNESIUM T	60.000 MG/L	06/20/2007
70508 HOT ACIDITY	94.40 MG/L	06/19/2007
** Comment ** Acidity Measured to Endpoint 8.3		

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Analytical Report FOR
Abandoned Mine Reclamation

Sample ID: 7329 905 06/08/2007 Status: IN PROCESS

Collector: Daniel L Weaver
Collected: 06/08/2007 09:25:00 AM

County: Allegheny State: PA
Municipality: Findlay Twp

Location: NOT INDICATED
Reason: Project
Project: HAMILTON AMD HAMILTON AMD SITE

80 DEGREES, SUN/CLOUDS. MP4

Laboratory Sample ID: I2007021870 IN PROCESS
Standard Analysis: 711

Test/CAS# - Description	Reported Results	Completed
00530 T SUSP SOLID	6 MG/L	06/19/2007
01045A IRON T	226.000 UG/L	06/12/2007
00410 ALKALINITY	114.4 MG/L	06/13/2007
** Comment ** Alkalinity Measured to Endpoint 4.5		
00945A SULFATE T	247.0 MG/L	06/14/2007
00916A CALCIUM T	131.000 MG/L	06/20/2007
00900 Hardness T	452 MG/L	06/20/2007
01105A ALUMINUM T	<200 UG/L	06/12/2007
00403 pH	7.9 pH units	06/13/2007
** Comment ** Time Limit For Test Exceeded		
01055A MANGANESE T	339.000 UG/L	06/12/2007
00927A MAGNESIUM T	30.200 MG/L	06/20/2007
70508 HOT ACIDITY	-82.00 MG/L	06/19/2007
** Comment ** Acidity Measured to Endpoint 8.3		

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Analytical Report FOR
Abandoned Mine Reclamation

Sample ID: 7329 906 06/08/2007 Status: IN PROCESS

Collector: Daniel L Weaver
Collected: 06/08/2007 09:35:00 AM

County: Allegheny
Municipality: Findlay Twp

State: PA

MP ID: MP3A 78530 MP Type: Stream
MP Location Description: UNNAMED TRIB DOWNSTREAM
* Alias ID Project/Facility
* MP3A HAMILTON AM

Location: UNNAMED TRIB DOWNSTREAM
Reason: Project
Project: HAMILTON AMD HAMILTON AMD SITE

80 DEGREES, SUN/CLOUDS. CRITTERS SWIMMING IN WATER.

Laboratory Sample ID: I2007021871 IN PROCESS
Standard Analysis: 711

Test/CAS# - Description	Reported Results	Completed
00530 T SUSP SOLID	8 MG/L	06/19/2007
01045A IRON T	6158.000 UG/L	06/12/2007
00410 ALKALINITY	45.2 MG/L	06/13/2007
** Comment **	Alkalinity Measured to Endpoint 4.5	
00945A SULFATE T	471.1 MG/L	06/14/2007
00916A CALCIUM T	159.000 MG/L	06/20/2007
00900 Hardness T	566 MG/L	06/20/2007
01105A ALUMINUM T	234.000 UG/L	06/12/2007
00403 pH	6.9 pH units	06/13/2007
** Comment **	Time Limit For Test Exceeded	
01055A MANGANESE T	3419.000 UG/L	06/12/2007
00927A MAGNESIUM T	41.000 MG/L	06/20/2007
70508 HOT ACIDITY	-7.20 MG/L	06/19/2007
** Comment **	Acidity Measured to Endpoint 8.3	

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Analytical Report FOR
Abandoned Mine Reclamation

Sample ID: 7329 907 06/08/2007 Status: IN PROCESS

Collector: Daniel L Weaver
Collected: 06/08/2007 09:30:00 AM

County: Allegheny
Municipality: Findlay Twp

State: PA

Location: NOT INDICATED
Reason: Project
Project: HAMILTON AMD HAMILTON AMD SITE

80 DEGREES, SUN/CLOUDS. MP3

Laboratory Sample ID: I2007021872 IN PROCESS
Standard Analysis: 711

Test/CAS# - Description	Reported Results	Completed
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00530	T SUSP SOLID	6 MG/L	06/19/2007
01045A	IRON T	15800.000 UG/L	06/20/2007
00410	ALKALINITY	0.0 MG/L	06/13/2007
** Comment ** Alkalinity Measured to Endpoint 4.5			
00945A	SULFATE T	689.6 MG/L	06/14/2007
00916A	CALCIUM T	194.000 MG/L	06/20/2007
00900	Hardness T	707 MG/L	06/20/2007
01105A	ALUMINUM T	366.000 UG/L	06/12/2007
00403	pH	3.7 pH units	06/13/2007
** Comment ** Time Limit For Test Exceeded			
01055A	MANGANESE T	6454.000 UG/L	06/12/2007
00927A	MAGNESIUM T	54.000 MG/L	06/20/2007
70508	HOT ACIDITY	59.00 MG/L	06/19/2007
** Comment ** Acidity Measured to Endpoint 8.3			

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Analytical Report FOR
Abandoned Mine Reclamation

Sample ID: 7329 908 06/08/2007 Status: IN PROCESS

Collector: Daniel L Weaver
Collected: 06/08/2007 10:10:00 AM

County: Allegheny State: PA
Municipality: Findlay Twp

MP ID: SPRINGHOUSE 80573 MP Type: Spring
MP Location Description: DOWNSTREAM FROM SPRINGHOUSE
* Alias ID Project/Facility

* SPRINGHOUS HAMILTON AM

Location: DOWNSTREAM FROM SPRINGHOUSE
Reason: Project
Project: HAMILTON AMD HAMILTON AMD SITE

80 DEGREES, SUN/CLOUDS.

(Flow Rates) Initial: Final: 1 Units: Gal/Min E/M/C: E
Laboratory Sample ID: I2007021873 IN PROCESS
Standard Analysis: 711

Test/CAS# - Description	Reported Results	Completed
00530 T SUSP SOLID	62 MG/L	06/19/2007
01045A IRON T	2754.000 UG/L	06/12/2007
00410 ALKALINITY	149.8 MG/L	06/13/2007
** Comment ** Alkalinity Measured to Endpoint 4.5		
00945A SULFATE T	113.0 MG/L	06/15/2007
00916A CALCIUM T	83.000 MG/L	06/20/2007
00900 Hardness T	268 MG/L	06/20/2007
01105A ALUMINUM T	1573.000 UG/L	06/12/2007
00403 pH	7.9 pH units	06/13/2007
** Comment ** Time Limit For Test Exceeded		
01055A MANGANESE T	176.000 UG/L	06/12/2007
00927A MAGNESIUM T	14.700 MG/L	06/20/2007
70508 HOT ACIDITY	-133.00 MG/L	06/19/2007
** Comment ** Acidity Measured to Endpoint 8.3		

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