

Appendix

Chemical laboratory reporting sheets

Analysis Report



August 07, 2008

Page 1 of 2

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Client Sample ID: WQ36-1
Date Sampled: Jul 29, 2008 ✓
Date Received: Jul 31, 2008
Product Description: WATER

Sample ID By: Skyline
Sample Taken At: WQ36-1
Sample Taken By: E. Petersen
Time Sampled: 1645
Time Received: 0725
Field - Conductivity: 555 umhos/cm
Field - Temperature: 4.6 Deg. C
Field - pH: 7.28 pH Units

Comments: Dissolved Metals Filtered In The Field

SGS Minerals Sample ID: 782-0800481-001

PARAMETER	RESULT	METHOD	REGULATORY		ANALYZED	
			LEVEL	DATE	TIME	ANALYST
Chloride, Cl	7 mg/L	EPA 300.0	1	08/01/2008	12:09:00 F	CM
Nitrate + Nitrite as Nitrogen	1.74 mg/L	EPA 300.0	0.05	08/01/2008	12:09:00 F	CM
Sulfate, SO ₄	15 mg/L	EPA 300.0	1	08/01/2008	12:09:00 F	CM
Anions	6.20 meq/L	SM1030	0	08/07/2008	1:57:00 PM	SJ
Balance	3.50 %	SM1030	-10	08/07/2008	1:57:00 PM	SJ
Cations	6.60 meq/L	SM1030	0	08/07/2008	1:58:00 PM	SJ
Acidity	21 mg/L	D1067	5	08/04/2008	9:30:00 AM	CM
Alkalinity, mg CaCO ₃ /L (pH 4.5)	284 mg/L	SM2320-B	5	07/31/2008	1:00:00 PM	CM
Bicarbonate Alkalinity as CaCO ₃	284 mg/L	SM2320-B	5	07/31/2008	1:00:00 PM	CM
Carbonate Alkalinity as CaCO ₃	<5 mg/L	SM2320-B	5	07/31/2008	1:00:00 PM	CM
Hardness, mg equivalent CaCO ₃ /L	322 mg/L	SM2340-B	1	08/07/2008	1:58:00 PM	SJ
Total Dissolved Solids	346 mg/L	SM2540-C	30	08/05/2008	12:15:00 F	CM
Total Suspended Solids	42 mg/L	SM2540-D	5	08/05/2008	12:15:00 F	CM
Phosphorus, Total	<0.05 mg/L	SM4500-P E	0.05	08/05/2008	8:30:00 AM	CM

METALS BY ICP

Barium, Ba - Dissolved	0.016 mg/L	EPA 200.7	0.002	08/04/2008	15:00	cdm
Boron, B - Dissolved	0.02 mg/L	EPA 200.7	0.01	08/04/2008	15:00	cdm
Calcium, Ca - Dissolved	98.03 mg/L	EPA 200.7	0.03	08/04/2008	15:00	cdm
Copper, Cu - Dissolved	<0.01 mg/L	EPA 200.7	0.01	08/04/2008	15:00	cdm
Iron, Fe - Total	0.57 mg/L	EPA 200.7	0.05	08/04/2008	17:00	cdm
Iron, Fe - Dissolved	<0.03 mg/L	EPA 200.7	0.03	08/04/2008	15:00	cdm
Lead, Pb - Dissolved	<0.01 mg/L	EPA 200.7	0.01	08/04/2008	15:00	cdm
Magnesium, Mg - Dissolved	18.70 mg/L	EPA 200.7	0.01	08/04/2008	15:00	cdm
Manganese, Mn - Total	0.020 mg/L	EPA 200.7	0.002	08/04/2008	17:00	cdm
Manganese, Mn - Dissolved	0.003 mg/L	EPA 200.7	0.002	08/04/2008	15:00	cdm

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

SGS North America Inc.

Minerals Services Division

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Analysis Report

SGS

August 07, 2008

Page 2 of 2

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Client Sample ID: WQ36-1
Date Sampled: Jul 29, 2008
Date Received: Jul 31, 2008
Product Description: WATER

Sample ID By Skyline
Sample Taken At WQ36-1
Sample Taken By E. Petersen
Time Sampled 1645
Time Received 0725
Field - Conductivity 555 umhos/cm
Field - Temperature 4.6 Deg. C
Field - pH 7.28 pH Units

Comments: Dissolved Metals Filtered In The Field

SGS Minerals Sample ID: 782-0800481-001

PARAMETER	RESULT	METHOD	REGULATORY	ANALYZED			
			LEVEL	DATE	TIME	ANALYST	
METALS BY ICP (continued)							
Potassium, K - Dissolved	1.42 mg/L	EPA 200.7	0.14	08/04/2008	15:00	cdm	
Sodium, Na - Dissolved	4.05 mg/L	EPA 200.7	0.09	08/04/2008	15:00	cdm	

Respectfully submitted,
SGS NORTH AMERICA INC.



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Analysis Report

November 12, 2008

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Page 1 of 1

Client Sample ID: WQ 36-1
Date Sampled: Oct 30, 2008
Date Received: Nov 3, 2008
Product Description: WATER

Sample ID By: Skyline
Sample Taken At: WQ 36-1
Sample Taken By: ECP
Time Sampled: 1230
Time Received: 1433
Mine: 21
Field - pH: 7.09 pH Units
Field - Flow: 4.08 GPM
Field - Conductivity: 574 umhos/cm
Field - Temperature: 5.3 Deg. C

Comments: Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-0800718-002

Tests	Result	Unit	Method	REPORTING	ANALYZED		
				LIMIT	DATE	TIME	ANALYST
Hardness, mg equivalent CaCO ₃ /L	324	mg/L	SM2340-B	1.000	11/12/2008	13:41	SJ
Anions	6.40	meq/L	SM1030	0.000	11/12/2008	13:39	SJ
Nitrate + Nitrite as Nitrogen	2.76	mg/L	EPA 300.0	0.050	11/04/2008	20:00	GF
Balance	2.10	%	SM1030	-10.000	11/12/2008	13:40	SJ
Sulfate, SO ₄	17	mg/L	EPA 300.0	1.000	11/04/2008	20:00	GF
Cations	6.70	meq/L	SM1030	0.000	11/12/2008	13:40	SJ
Total Dissolved Solids	320	mg/L	SM2540-C	30.000	11/05/2008	11:45	GK
Total Suspended Solids	9	mg/L	SM2540-D	5.000	11/05/2008	11:45	GK
Chloride, Cl	8	mg/L	EPA 300.0	1.000	11/04/2008	20:00	GF
Phosphorus, Total	<0.05	mg/L	SM4500-P E	0.050	11/05/2008	08:30	CM
Alkalinity, mg CaCO ₃ /L (pH 4.5)	282	mg/L	SM2320-B	5.000	11/04/2008	12:10	CM
Carbonate Alkalinity as CaCO ₃	<5	mg/L	SM2320-B	5.000	11/04/2008	12:10	CM
Bicarbonate Alkalinity as CaCO ₃	292	mg/L	SM2320-B	5.000	11/04/2008	12:10	CM
METALS BY ICP							
Calcium, Ca - Dissolved	98.67	mg/L	EPA 200.7	0.030	11/04/2008	18:29	CM
Iron, Fe - Total	0.06	mg/L	EPA 200.7	0.050	11/11/2008	14:42	CM
Magnesium, Mg - Dissolved	18.73	mg/L	EPA 200.7	0.010	11/04/2008	18:29	CM
Manganese, Mn - Total	0.003	mg/L	EPA 200.7	0.002	11/11/2008	14:42	CM
Potassium, K - Dissolved	1.43	mg/L	EPA 200.7	0.140	11/04/2008	18:29	CM
Sodium, Na - Dissolved	4.18	mg/L	EPA 200.7	0.090	11/04/2008	18:29	CM

Respectfully submitted,
SGS NORTH AMERICA INC.


Huntington Laboratory

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July 15, 2009

Analysis Report

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Page 1 of 2

Client Sample ID: WQ36-1
Date Sampled: Jun 29, 2009
Date Received: Jul 2, 2009
Product Description: WATER

Sample ID By: Skyline
Sample Taken At: WQ36-1
Sample Taken By: A. Belcher
Time Sampled: 1515
Time Received: 1030
Mine: 21
Field - pH: 7.10
Field - Flow: 18.2 GPM
Field - Conductivity: 591 umhos/cm
Field - Temperature: 4.6 Deg. C

Comments: Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-0901264-006

Tests	Result	Unit	Method	REPORTING	ANALYZED		
				LIMIT	DATE	TIME	ANALYST
Hardness, mg equivalent CaCO ₃ /L	330	mg/L	SM2340-B	1.000	07/14/2009	13:21	AL
Acidity	12	mg/L	D1067	5.000	07/07/2009	12:45	GF
Anions	6.20	meq/L	SM1030	0.000	07/14/2009	13:21	AL
Balance	4.40	%	SM1030	-10.000	07/14/2009	13:21	AL
Cations	6.80	meq/L	SM1030	0.000	07/14/2009	13:21	AL
Nitrate + Nitrite as Nitrogen	1.20	mg/L	EPA 300.0	0.050	07/02/2009	17:33	GF
Sulfate, SO ₄	16	mg/L	EPA 300.0	1.000	07/02/2009	17:33	GF
Total Dissolved Solids	339	mg/L	SM2540-C	30.000	07/06/2009	15:00	AL
Total Suspended Solids	13	mg/L	SM2540-D	5.000	07/06/2009	15:00	AL
Chloride, Cl	7	mg/L	EPA 300.0	1.000	07/02/2009	17:33	GF
Phosphorus, Total	<0.05	mg/L	SM4500-P E	0.050	07/07/2009	08:00	CM
Alkalinity, mg CaCO ₃ /L (pH 4.5)	285	mg/L	SM2320-B	5.000	07/07/2009	14:13	CM
Carbonate Alkalinity as CaCO ₃	<5	mg/L	SM2320-B	5.000	07/07/2009	14:13	CM
Bicarbonate Alkalinity as CaCO ₃	285	mg/L	SM2320-B	5.000	07/07/2009	14:13	CM

Respectfully submitted,
SGS NORTH AMERICA INC.

Allen Huntington
Huntington Laboratory

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July 15, 2009

Analysis Report

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Page 2 of 2

Client Sample ID: WQ36-1
Date Sampled: Jun 29, 2009
Date Received: Jul 2, 2009
Product Description: WATER

Sample ID By: Skyline
Sample Taken At: WQ36-1
Sample Taken By: A. Belcher
Time Sampled: 1515
Time Received: 1030
Mine: 21
Field - pH: 7.10
Field - Flow: 18.2 GPM
Field - Conductivity: 591 umhos/cm
Field - Temperature: 4.6 Deg. C

Comments: Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-0901264-006

Tests	Result	Unit	Method	REPORTING		ANALYZED	
				LIMIT	DATE	TIME	ANALYST
METALS BY ICP							
Barium, Ba - Dissolved	0.015	mg/L	EPA 200.7	0.002	07/09/2009	14:05	CM
Boron, B - Dissolved	0.02	mg/L	EPA 200.7	0.010	07/09/2009	14:05	CM
Calcium, Ca - Dissolved	100.97	mg/L	EPA 200.7	0.030	07/09/2009	14:05	CM
Copper, Cu - Dissolved	<0.01	mg/L	EPA 200.7	0.010	07/09/2009	14:05	CM
Iron, Fe - Total	<0.05	mg/L	EPA 200.7	0.050	07/07/2009	11:29	GF
Iron, Fe - Dissolved	<0.03	mg/L	EPA 200.7	0.030	07/09/2009	14:05	CM
Lead, Pb - Dissolved	<0.01	mg/L	EPA 200.7	0.010	07/09/2009	14:05	CM
Magnesium, Mg - Dissolved	18.85	mg/L	EPA 200.7	0.010	07/09/2009	14:05	CM
Manganese, Mn - Total	<0.002	mg/L	EPA 200.7	0.002	07/07/2009	11:29	GF
Manganese, Mn - Dissolved	<0.002	mg/L	EPA 200.7	0.002	07/09/2009	14:05	CM
Potassium, K - Dissolved	1.42	mg/L	EPA 200.7	0.140	07/09/2009	14:05	CM
Sodium, Na - Dissolved	4.03	mg/L	EPA 200.7	0.090	07/09/2009	14:05	CM

Respectfully submitted,
SGS NORTH AMERICA INC.

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Analysis Report

October 01, 2009

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Page 1 of 1

Client Sample ID: WQ36-1
Date Sampled: Sep 22, 2009
Date Received: Sep 24, 2009
Product Description: WATER

Sample ID By: Skyline
Sample Taken At: WQ36-1
Sample Taken By: E. Petersen
Time Sampled: 1130
Time Received: 0730
Mine: 21
Field - pH: 7.04
Field - Flow: 3.89 GPM
Field - Conductivity: 581 umhos/cm
Field - Temperature: 5.7 Deg. C

Comments: Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-0901557-001

Tests	Result	Unit	Method	REPORTING	ANALYZED		
				LIMIT	DATE	TIME	ANALYST
Hardness, mg equivalent CaCO ₃ /L	332	mg/L	SM2340-B	1.000	09/30/2009	15:20	AL
Anions	6.70	meq/L	SM1030	0.000	09/30/2009	15:20	AL
Nitrate + Nitrite as Nitrogen	0.57	mg/L	EPA 300.0	0.050	09/24/2009	21:11	CM
Balance	1.26	%	SM1030	-10.000	09/30/2009	15:20	AL
Sulfate, SO ₄	16	mg/L	EPA 300.0	1.000	09/24/2009	21:11	CM
Cations	6.87	meq/L	SM1030	0.000	09/30/2009	15:20	AL
Total Dissolved Solids	363	mg/L	SM2540-C	30.000	09/24/2009	15:30	GF
Total Suspended Solids	76	mg/L	SM2540-D	5.000	09/24/2009	15:30	GF
Chloride, Cl	8	mg/L	EPA 300.0	1.000	09/24/2009	21:11	CM
Phosphorus, Total	<0.05	mg/L	SM4500-P E	0.050	09/30/2009	07:30	CM
Alkalinity, mg CaCO ₃ /L (pH 4.5)	307	mg/L	SM2320-B	5.000	09/25/2009	09:30	GF
Carbonate Alkalinity as CaCO ₃	<5	mg/L	SM2320-B	5.000	09/25/2009	09:30	GF
Bicarbonate Alkalinity as CaCO ₃	307	mg/L	SM2320-B	5.000	09/25/2009	09:30	GF
METALS BY ICP							
Calcium, Ca - Dissolved	100.69	mg/L	EPA 200.7	0.030	09/24/2009	17:51	CM
Iron, Fe - Total	0.53	mg/L	EPA 200.7	0.050	09/29/2009	18:43	CM
Magnesium, Mg - Dissolved	19.60	mg/L	EPA 200.7	0.010	09/24/2009	17:51	CM
Manganese, Mn - Total	0.014	mg/L	EPA 200.7	0.002	09/29/2009	18:43	CM
Potassium, K - Dissolved	1.51	mg/L	EPA 200.7	0.140	09/24/2009	17:51	CM
Sodium, Na - Dissolved	4.53	mg/L	EPA 200.7	0.090	09/24/2009	17:51	CM

Respectfully submitted,
SGS NORTH AMERICA INC.

Allen Lucking
Huntington Laboratory

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Analysis Report

November 20, 2009

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Page 1 of 1

Client Sample ID: WQ 36-1
Date Sampled: Nov 11, 2009
Date Received: Nov 12, 2009
Product Description: WATER

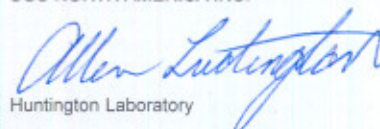
Sample ID By: Skyline
Sample Taken At: WQ 36-1
Sample Taken By: Eric Petersen
Time Sampled: 1045
Time Received: 1300
Mine: 21
Field - pH: 7.09 pH
Field - Flow: 2.68 GPM
Field - Conductivity: 589 umhos/cm
Field - Temperature: 5.6 Deg. C

Comments: Dissolved Metals Field Filtered
Bottles not obtained from lab

SGS Minerals Sample ID: 782-0901747-001

Tests	Result	Unit	Method	REPORTING	ANALYZED		
				LIMIT	DATE	TIME	ANALYST
Hardness, mg equivalent CaCO ₃ /L	340	mg/L	SM2340-B	1.000	11/18/2009	11:42	AL
Anions	6.73	meq/L	SM1030	0.000	11/18/2009	11:42	AL
Nitrate + Nitrite as Nitrogen	0.62	mg/L	EPA 300.0	0.050	11/13/2009	19:06	CM
Balance	2.14	%	SM1030	-10.000	11/18/2009	11:42	AL
Sulfate, SO ₄	17	mg/L	EPA 300.0	1.000	11/13/2009	19:06	CM
Cations	7.02	meq/L	SM1030	0.000	11/18/2009	11:42	AL
Total Dissolved Solids	350	mg/L	SM2540-C	30.000	11/16/2009	13:30	CM
Total Suspended Solids	10	mg/L	SM2540-D	5.000	11/16/2009	13:00	CM
Chloride, Cl	8	mg/L	EPA 300.0	1.000	11/13/2009	19:06	CM
Phosphorus, Total	<0.05	mg/L	SM4500-P E	0.050	11/13/2009	08:30	CM
Alkalinity, mg CaCO ₃ /L (pH 4.5)	308	mg/L	SM2320-B	5.000	11/16/2009	14:20	CM
Carbonate Alkalinity as CaCO ₃	<5	mg/L	SM2320-B	5.000	11/16/2009	14:20	CM
Bicarbonate Alkalinity as CaCO ₃	308	mg/L	SM2320-B	5.000	11/16/2009	14:20	CM
METALS BY ICP							
Calcium, Ca - Dissolved	103.22	mg/L	EPA 200.7	0.030	11/17/2009	14:20	CM
Iron, Fe - Total	<0.05	mg/L	EPA 200.7	0.050	11/17/2009	11:54	CM
Magnesium, Mg - Dissolved	19.96	mg/L	EPA 200.7	0.010	11/17/2009	14:20	CM
Manganese, Mn - Total	<0.002	mg/L	EPA 200.7	0.002	11/17/2009	11:54	CM
Potassium, K - Dissolved	1.59	mg/L	EPA 200.7	0.140	11/17/2009	14:20	CM
Sodium, Na - Dissolved	4.29	mg/L	EPA 200.7	0.090	11/17/2009	14:20	CM

Respectfully submitted,
SGS NORTH AMERICA INC.


Huntington Laboratory

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Analysis Report

June 30, 2010

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Page 1 of 2

Client Sample ID: WQ 36-1
Date Sampled: Jun 15, 2010
Date Received: Jun 16, 2010
Product Description: WATER

Sample ID By: Skyline
Sample Taken At: WQ 36-1
Sample Taken By: Eric Petersen
Time Sampled: 1920
Time Received: 1525
Mine: 21
Field - pH: 7.38 pH
Field - Conductivity: 499 umhos/cm
Field - Temperature: 3.9 Deg. C

Comments: Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-1003123-010

TESTS	RESULT	UNIT	METHOD	REPORTING	ANALYZED		
				LIMIT	DATE	TIME	ANALYST
Hardness, mg equivalent CaCO ₃ /L	303	mg/L	SM2340-B	1.000	2010-06-25	15:00:00	AL
Acidity	17	mg/L	D1067	5.000	2010-06-25	13:00:00	CM
Nitrate + Nitrite as Nitrogen	0.61	mg/L	EPA 300.0	0.050	2010-06-17	13:39:00	CM
Sulfate, SO ₄	16	mg/L	EPA 300.0	1.000	2010-06-17	20:57:00	CM
Anions	6.31	meq/L	SM1030	0.000	2010-06-25	15:00:00	AL
Balance	-0.26	%	SM1030	-10.000	2010-06-25	15:00:00	AL
Cations	6.27	meq/L	SM1030	0.000	2010-06-25	15:00:00	AL
Total Dissolved Solids	335	mg/L	SM2540-C	30.000	2010-06-17	14:55:00	CM
Total Suspended Solids	9	mg/L	SM2540-D	5.000	2010-06-17	14:55:00	CM
Chloride, Cl	7	mg/L	EPA 300.0	1.000	2010-06-17	20:57:00	CM
Phosphorus, Total	<0.05	mg/L	SM4500-P E	0.050	2010-06-29	07:30:00	AL
Alkalinity, mg CaCO ₃ /L (pH 4.5)	289	mg/L	SM2320-B	5.000	2010-06-18	11:45:00	CM
Carbonate Alkalinity as CaCO ₃	<5	mg/L	SM2320-B	5.000	2010-06-18	11:45:00	CM
Bicarbonate Alkalinity as CaCO ₃	289	mg/L	SM2320-B	5.000	2010-06-18	11:45:00	CM
METALS BY ICP							
Barium, Ba - Dissolved	0.015	mg/L	EPA 200.7	0.002	2010-06-17	18:00:00	CM
Boron, B - Dissolved	0.02	mg/L	EPA 200.7	0.010	2010-06-17	18:00:00	CM
Calcium, Ca - Dissolved	92.98	mg/L	EPA 200.7	0.030	2010-06-17	18:00:00	CM
Copper, Cu - Dissolved	<0.01	mg/L	EPA 200.7	0.010	2010-06-17	18:00:00	CM
Iron, Fe - Total	<0.05	mg/L	EPA 200.7	0.050	2010-06-22	17:34:00	CM

Allen Ludington
Water Lab Supervisor

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Analysis Report

June 30, 2010

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Page 2 of 2

Client Sample ID: WQ 36-1
Date Sampled: Jun 15, 2010
Date Received: Jun 16, 2010
Product Description: WATER

Sample ID By: Skyline
Sample Taken At: WQ 36-1
Sample Taken By: Eric Petersen
Time Sampled: 1920
Time Received: 1525
Mine: 21
Field - pH: 7.38 pH
Field - Conductivity: 499 umhos/cm
Field - Temperature: 3.9 Deg. C

Comments: Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-1003123-010

TESTS	RESULT	UNIT	METHOD	REPORTING LIMIT	DATE	ANALYZED TIME	ANALYST
METALS BY ICP (continued)							
Iron, Fe - Dissolved	<0.03	mg/L	EPA 200.7	0.030	2010-06-17	18:00:00	CM
Lead, Pb - Dissolved	<0.01	mg/L	EPA 200.7	0.010	2010-06-17	18:00:00	CM
Magnesium, Mg - Dissolved	17.26	mg/L	EPA 200.7	0.010	2010-06-17	18:00:00	CM
Manganese, Mn - Total	<0.002	mg/L	EPA 200.7	0.002	2010-06-22	17:34:00	CM
Manganese, Mn - Dissolved	<0.002	mg/L	EPA 200.7	0.002	2010-06-17	18:00:00	CM
Potassium, K - Dissolved	1.34	mg/L	EPA 200.7	0.140	2010-06-17	18:00:00	CM
Sodium, Na - Dissolved	4.09	mg/L	EPA 200.7	0.090	2010-06-17	18:00:00	CM

Allen Ludington
Water Lab Supervisor

SGS North America Inc. Minerals Services Division
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Chemtech-Ford Laboratories

Certificate of Analysis

Lab Sample No.: 1009162-01

Name:	Canyon Fuel Co., Skyline Mine	Mine Code:	21	Sample Date:	11/2/2010 11:35 AM
Sample Site:	WQ36-1	Receipt Date:	11/4/2010 12:00 PM	Sampler:	Austin Belcher
Comments:		Site No.:	None Listed	Field Temp. Deg. C :	5.0
Sample Type:	Water	Field Flow g/Min.:	0.8	Field Cond. umhos/cm:	606
Field pH:	7.31				

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Calculations							
Anions, Total	4.3	0.01	meq/L	12/3/2010 8:00	MJB	SM 1030 E	
Cation/Anion Balance	17		%	12/3/2010 8:00	MJB	SM 1030 E	
Cations, Total	6.2	0.01	meq/L	12/3/2010 8:00	MJB	SM 1030E	
Hardness, Total as CaCO3	299	1	mg/L	12/3/2010 8:00	MJB	SM 2340 B	
Inorganic							
Acidity	ND	15.0	mg/L	11/10/2010 11:15	AWL	SM 2310 B	SL-01
Alkalinity - Bicarbonate	232	1.0	mg/L	11/8/2010 9:00	TSM	SM 2320 B	
Alkalinity - Carbonate	ND	1.0	mg/L	11/8/2010 9:00	TSM	SM 2320 B	
Alkalinity - CO2	169	1.0	mg/L	11/8/2010 9:00	TSM	SM 2320 B	
Alkalinity - Hydroxide	ND	1.0	mg/L	11/8/2010 9:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	190	1.0	mg/L	11/8/2010 9:00	TSM	SM 2320 B	
Chloride	7	1	mg/L	11/5/2010 17:00	TSM	EPA 300.0	
Nitrate + Nitrite (Total)	0.6	0.1	mg/L	11/10/2010 15:17	AKL	SM 4500 NO3-F	
Phosphorus, Total	0.02	0.01	mg/L	11/16/2010 10:00	TSM	SM 4500 PB5E	
Sulfate	18	1	mg/L	11/5/2010 17:00	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	341	5	mg/L	11/9/2010 13:08	JSH	SM 2540 C	
Total Suspended Solids (TSS)	8	4	mg/L	11/8/2010 14:56	JSH	SM 2540 D	
Metals							
Boron, Dissolved ✓	ND	0.05	mg/L	11/17/2010 20:36	MJB	EPA 200.7	
Barium, Dissolved ✓	0.017	0.005	mg/L	11/17/2010 20:36	MJB	EPA 200.7	
Calcium, Dissolved ✓	90.0	0.2	mg/L	11/17/2010 20:36	MJB	EPA 200.7	
Calcium, Total ✓	90.0	0.2	mg/L	11/17/2010 20:40	MJB	EPA 200.7	
Copper, Dissolved ✓	ND	0.005	mg/L	11/17/2010 20:36	MJB	EPA 200.7	
Iron, Dissolved ✓	ND	0.02	mg/L	11/17/2010 20:36	MJB	EPA 200.7	
Iron, Total ✓	0.07	0.02	mg/L	11/17/2010 20:40	MJB	EPA 200.7	
Lead, Dissolved ✓	0.02	0.02	mg/L	11/17/2010 20:36	MJB	EPA 200.7	
Magnesium, Dissolved ✓	18.0	0.2	mg/L	11/17/2010 20:36	MJB	EPA 200.7	
Magnesium, Total ✓	18.0	0.2	mg/L	11/17/2010 20:40	MJB	EPA 200.7	
Manganese, Dissolved ✓	ND	0.005	mg/L	11/17/2010 20:36	MJB	EPA 200.7	
Manganese, Total ✓	0.005	0.005	mg/L	11/17/2010 20:40	MJB	EPA 200.7	
Potassium, Dissolved ✓	1.8	0.5	mg/L	11/17/2010 20:36	MJB	EPA 200.7	
Sodium, Dissolved ✓	4.5	0.5	mg/L	11/17/2010 20:36	MJB	EPA 200.7	

Analysis Report



August 07, 2008

Page 1 of 2

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Client Sample ID: WQ36-2
Date Sampled: Jul 29, 2008
Date Received: Jul 31, 2008
Product Description: WATER

Sample ID By Skyline
Sample Taken At WQ36-2
Sample Taken By E. Petersen
Time Sampled 1800
Time Received 0725
Field - Flow 5.38 GPM
Field - Conductivity 756 umhos/cm
Field - Temperature 7.2 Deg. C
Field - pH 7.38 pH Units

Comments: Dissolved Metals Filtered In The Field

SGS Minerals Sample ID: 782-0800481-002

PARAMETER	RESULT	METHOD	REGULATORY	ANALYZED		
			LEVEL	DATE	TIME	ANALYST
Chloride, Cl	36 mg/L	EPA 300.0	1	08/01/2008	12:09:00	F CM
Nitrate + Nitrite as Nitrogen	0.90 mg/L	EPA 300.0	0.05	08/01/2008	12:09:00	F CM
Sulfate, SO4	57 mg/L	EPA 300.0	1	08/01/2008	12:09:00	F CM
Anions	8.50 meq/L	SM1030	0	08/07/2008	1:57:00	PM SJ
Balance	1.40 %	SM1030	-10	08/07/2008	1:57:00	PM SJ
Cations	8.80 meq/L	SM1030	0	08/07/2008	1:58:00	PM SJ
Acidity	20 mg/L	D1067	5	08/04/2008	9:30:00	AM CM
Alkalinity, mg CaCO3/L (pH 4.5)	317 mg/L	SM2320-B	5	07/31/2008	1:00:00	PM CM
Bicarbonate Alkalinity as CaCO3	317 mg/L	SM2320-B	5	07/31/2008	1:00:00	PM CM
Carbonate Alkalinity as CaCO3	<5 mg/L	SM2320-B	5	07/31/2008	1:00:00	PM CM
Hardness, mg equivalent CaCO3/L	394 mg/L	SM2340-B	1	08/07/2008	1:58:00	PM SJ
Total Dissolved Solids	490 mg/L	SM2540-C	30	08/05/2008	12:15:00	F CM
Total Suspended Solids	35 mg/L	SM2540-D	5	08/05/2008	12:15:00	F CM
Phosphorus, Total	<0.05 mg/L	SM4500-P E	0.05	08/05/2008	8:30:00	AM CM

METALS BY ICP

Barium, Ba - Dissolved	0.027 mg/L	EPA 200.7	0.002	08/04/2008	15:08	cdm
Boron, B - Dissolved	0.04 mg/L	EPA 200.7	0.01	08/04/2008	15:08	cdm
Calcium, Ca - Dissolved	105.08 mg/L	EPA 200.7	0.03	08/04/2008	15:08	cdm
Copper, Cu - Dissolved	<0.01 mg/L	EPA 200.7	0.01	08/04/2008	15:08	cdm
Iron, Fe - Total	0.28 mg/L	EPA 200.7	0.05	08/04/2008	17:04	cdm
Iron, Fe - Dissolved	<0.03 mg/L	EPA 200.7	0.03	08/04/2008	15:08	cdm
Lead, Pb - Dissolved	<0.01 mg/L	EPA 200.7	0.01	08/04/2008	15:08	cdm
Magnesium, Mg - Dissolved	32.05 mg/L	EPA 200.7	0.01	08/04/2008	15:08	cdm
Manganese, Mn - Total	0.004 mg/L	EPA 200.7	0.002	08/04/2008	17:04	cdm

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

SGS North America Inc.

Minerals Services Division

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Analysis Report



August 07, 2008

Page 2 of 2

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Client Sample ID: WQ36-2
Date Sampled: Jul 29, 2008
Date Received: Jul 31, 2008
Product Description: WATER

Sample ID By Skyline
Sample Taken At WQ36-2
Sample Taken By E. Petersen
Time Sampled 1800
Time Received 0725
Field - Flow 5.38 GPM
Field - Conductivity 756 umhos/cm
Field - Temperature 7.2 Deg. C
Field - pH 7.38 pH Units

Comments: Dissolved Metals Filtered In The Field

SGS Minerals Sample ID: 782-0800481-002

PARAMETER	RESULT	METHOD	REGULATORY	ANALYZED		
			LEVEL	DATE	TIME	ANALYST
METALS BY ICP (continued)						
Manganese, Mn - Dissolved	<0.002 mg/L	EPA 200.7	0.002	08/04/2008	15:08	cdm
Potassium, K - Dissolved	2.36 mg/L	EPA 200.7	0.14	08/04/2008	15:08	cdm
Sodium, Na - Dissolved	19.20 mg/L	EPA 200.7	0.09	08/04/2008	15:08	cdm

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

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November 13, 2008

Analysis Report

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Page 1 of 1

Client Sample ID: WQ 36-2
Date Sampled: Oct 30, 2008
Date Received: Nov 3, 2008
Product Description: WATER

Sample ID By: Skyline
Sample Taken At: WQ 36-2
Sample Taken By: ECP
Time Sampled: 1300
Time Received: 1433
Mine: 21
Field - pH: 7.22 pH Units
Field - Flow: 1.17 GPM
Field - Conductivity: 762 umhos/cm
Field - Temperature: 8.7 Deg. C

Comments: Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-0800718-003

Tests	Result	Unit	Method	REPORTING		ANALYZED	
				LIMIT	DATE	TIME	ANALYST
Hardness, mg equivalent CaCO ₃ /L	393	mg/L	SM2340-B	1.000	11/12/2008	13:41	SJ
Anions	8.60	meq/L	SM1030	0.000	11/12/2008	13:39	SJ
Nitrate + Nitrite as Nitrogen	3.22	mg/L	EPA 300.0	0.050	11/04/2008	20:00	GF
Balance	1.10	%	SM1030	-10.000	11/12/2008	13:40	SJ
Sulfate, SO ₄	58	mg/L	EPA 300.0	1.000	11/04/2008	20:00	GF
Cations	8.80	meq/L	SM1030	0.000	11/12/2008	13:40	SJ
Total Dissolved Solids	439	mg/L	SM2540-C	30.000	11/05/2008	11:45	GK
Total Suspended Solids	25	mg/L	SM2540-D	5.000	11/05/2008	11:45	GK
Chloride, Cl	36	mg/L	EPA 300.0	1.000	11/04/2008	20:00	GF
Phosphorus, Total	<0.05	mg/L	SM4500-P E	0.050	11/05/2008	08:30	CM
Alkalinity, mg CaCO ₃ /L (pH 4.5)	318	mg/L	SM2320-B	5.000	11/04/2008	12:10	CM
Carbonate Alkalinity as CaCO ₃	<5	mg/L	SM2320-B	5.000	11/04/2008	12:10	CM
Bicarbonate Alkalinity as CaCO ₃	318	mg/L	SM2320-B	5.000	11/04/2008	12:10	CM
METALS BY ICP							
Calcium, Ca - Dissolved	104.19	mg/L	EPA 200.7	0.030	11/04/2008	18:29	CM
Iron, Fe - Total	0.18	mg/L	EPA 200.7	0.050	11/11/2008	14:42	CM
Magnesium, Mg - Dissolved	32.37	mg/L	EPA 200.7	0.010	11/04/2008	18:29	CM
Manganese, Mn - Total	0.019	mg/L	EPA 200.7	0.002	11/11/2008	14:42	CM
Potassium, K - Dissolved	2.48	mg/L	EPA 200.7	0.140	11/04/2008	18:29	CM
Sodium, Na - Dissolved	19.25	mg/L	EPA 200.7	0.090	11/04/2008	18:29	CM

Respectfully submitted,
SGS NORTH AMERICA INC.

Huntington Laboratory

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July 15, 2009

Analysis Report

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Page 1 of 2

Client Sample ID: WQ36-2
Date Sampled: Jun 29, 2009
Date Received: Jul 2, 2009
Product Description: WATER

Sample ID By: Skyline
Sample Taken At: WQ36-2
Sample Taken By: A. Belcher
Time Sampled: 1550
Time Received: 1030
Mine: 21
Field - pH: 7.15
Field - Flow: 2.88 GPM
Field - Conductivity: 763 umhos/cm
Field - Temperature: 7.2 Deg. C

Comments: Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-0901264-005

Tests	Result	Unit	Method	REPORTING	ANALYZED		
				LIMIT	DATE	TIME	ANALYST
Hardness, mg equivalent CaCO ₃ /L	415	mg/L	SM2340-B	1.000	07/14/2009	13:21	AL
Acidity	11	mg/L	D1067	5.000	07/07/2009	12:45	GF
Anions	8.40	meq/L	SM1030	0.000	07/14/2009	13:21	AL
Balance	4.40	%	SM1030	-10.000	07/14/2009	13:21	AL
Cations	9.20	meq/L	SM1030	0.000	07/14/2009	13:21	AL
Nitrate + Nitrite as Nitrogen	1.66	mg/L	EPA 300.0	0.050	07/02/2009	17:33	GF
Sulfate, SO ₄	57	mg/L	EPA 300.0	1.000	07/02/2009	17:33	GF
Total Dissolved Solids	468	mg/L	SM2540-C	30.000	07/06/2009	15:00	AL
Total Suspended Solids	6	mg/L	SM2540-D	5.000	07/06/2009	15:00	AL
Chloride, Cl	35	mg/L	EPA 300.0	1.000	07/02/2009	17:33	GF
Phosphorus, Total	<0.05	mg/L	SM4500-P E	0.050	07/07/2009	08:00	CM
Alkalinity, mg CaCO ₃ /L (pH 4.5)	314	mg/L	SM2320-B	5.000	07/07/2009	14:13	CM
Carbonate Alkalinity as CaCO ₃	<5	mg/L	SM2320-B	5.000	07/07/2009	14:13	CM
Bicarbonate Alkalinity as CaCO ₃	314	mg/L	SM2320-B	5.000	07/07/2009	14:13	CM

Respectfully submitted,
SGS NORTH AMERICA INC.

Allen Ludington
Huntington Laboratory

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Minerals Services Division
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July 15, 2009

Analysis Report

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Page 2 of 2

Client Sample ID: WQ36-2
Date Sampled: Jun 29, 2009
Date Received: Jul 2, 2009
Product Description: WATER

Sample ID By: Skyline
Sample Taken At: WQ36-2
Sample Taken By: A. Belcher
Time Sampled: 1550
Time Received: 1030
Mine: 21
Field - pH: 7.15
Field - Flow: 2.88 GPM
Field - Conductivity: 763 umhos/cm
Field - Temperature: 7.2 Deg. C

Comments: Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-0901264-005

Tests	Result	Unit	Method	REPORTING	ANALYZED		
				LIMIT	DATE	TIME	ANALYST
METALS BY ICP							
Barium, Ba - Dissolved	0.026	mg/L	EPA 200.7	0.002	07/09/2009	14:05	CM
Boron, B - Dissolved	0.04	mg/L	EPA 200.7	0.010	07/09/2009	14:05	CM
Calcium, Ca - Dissolved	109.45	mg/L	EPA 200.7	0.030	07/09/2009	14:05	CM
Copper, Cu - Dissolved	0.01	mg/L	EPA 200.7	0.010	07/09/2009	14:05	CM
Iron, Fe - Total	0.08	mg/L	EPA 200.7	0.050	07/07/2009	11:29	GF
Iron, Fe - Dissolved	<0.03	mg/L	EPA 200.7	0.030	07/09/2009	14:05	CM
Lead, Pb - Dissolved	<0.01	mg/L	EPA 200.7	0.010	07/09/2009	14:05	CM
Magnesium, Mg - Dissolved	34.51	mg/L	EPA 200.7	0.010	07/09/2009	14:05	CM
Manganese, Mn - Total	0.004	mg/L	EPA 200.7	0.002	07/07/2009	11:29	GF
Manganese, Mn - Dissolved	0.002	mg/L	EPA 200.7	0.002	07/09/2009	14:05	CM
Potassium, K - Dissolved	2.55	mg/L	EPA 200.7	0.140	07/09/2009	14:05	CM
Sodium, Na - Dissolved	19.85	mg/L	EPA 200.7	0.090	07/09/2009	14:05	CM

Respectfully submitted,
SGS NORTH AMERICA INC.

Allen Luckington
Huntington Laboratory

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Analysis Report

October 01, 2009

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Page 1 of 1

Client Sample ID: WQ36-2
Date Sampled: Sep 22, 2009
Date Received: Sep 24, 2009
Product Description: WATER

Sample ID By: Skyline
Sample Taken At: WQ36-2
Sample Taken By: E. Petersen
Time Sampled: 1200
Time Received: 0730
Mine: 21
Field - pH: 7.19
Field - Flow: 1.09 GPM
Field - Conductivity: 785 umhos/cm
Field - Temperature: 8.9 Deg. C

Comments: Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-0901557-002

Tests	Result	Unit	Method	REPORTING	ANALYZED		
				LIMIT	DATE	TIME	ANALYST
Hardness, mg equivalent CaCO ₃ /L	410	mg/L	SM2340-B	1.000	09/30/2009	15:20	AL
Anions	8.79	meq/L	SM1030	0.000	09/30/2009	15:20	AL
Nitrate + Nitrite as Nitrogen	0.27	mg/L	EPA 300.0	0.050	09/24/2009	21:11	CM
Balance	1.70	%	SM1030	-10.000	09/30/2009	15:20	AL
Sulfate, SO ₄	57	mg/L	EPA 300.0	1.000	09/24/2009	21:11	CM
Cations	9.10	meq/L	SM1030	0.000	09/30/2009	15:20	AL
Total Dissolved Solids	486	mg/L	SM2540-C	30.000	09/24/2009	15:30	GF
Total Suspended Solids	72	mg/L	SM2540-D	5.000	09/24/2009	15:30	GF
Chloride, Cl	35	mg/L	EPA 300.0	1.000	09/24/2009	21:11	CM
Phosphorus, Total	0.10	mg/L	SM4500-P E	0.050	09/30/2009	07:30	CM
Alkalinity, mg CaCO ₃ /L (pH 4.5)	331	mg/L	SM2320-B	5.000	09/25/2009	09:30	GF
Carbonate Alkalinity as CaCO ₃	<5	mg/L	SM2320-B	5.000	09/25/2009	09:30	GF
Bicarbonate Alkalinity as CaCO ₃	331	mg/L	SM2320-B	5.000	09/25/2009	09:30	GF
METALS BY ICP							
Calcium, Ca - Dissolved	106.61	mg/L	EPA 200.7	0.030	09/24/2009	17:51	CM
Iron, Fe - Total	0.81	mg/L	EPA 200.7	0.050	09/29/2009	18:43	CM
Magnesium, Mg - Dissolved	34.93	mg/L	EPA 200.7	0.010	09/24/2009	17:51	CM
Manganese, Mn - Total	0.053	mg/L	EPA 200.7	0.002	09/29/2009	18:43	CM
Potassium, K - Dissolved	2.66	mg/L	EPA 200.7	0.140	09/24/2009	17:51	CM
Sodium, Na - Dissolved	19.23	mg/L	EPA 200.7	0.090	09/24/2009	17:51	CM

Respectfully submitted,
SGS NORTH AMERICA INC.


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Analysis Report

November 20, 2009

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Page 1 of 1

Client Sample ID: WQ 36-2
Date Sampled: Nov 11, 2009
Date Received: Nov 12, 2009
Product Description: WATER

Sample ID By: Skyline
Sample Taken At: WQ 36-2
Sample Taken By: Eric Petersen
Time Sampled: 1115
Time Received: 1300
Mine: 21
Field - pH: 7.27 pH
Field - Flow: 1.06 GPM
Field - Conductivity: 781 umhos/cm
Field - Temperature: 8.7 Deg. C

Comments: Dissolved Metals Field Filtered
Bottles not obtained from lab

SGS Minerals Sample ID: 782-0901747-002

Tests	Result	Unit	Method	REPORTING	ANALYZED		
				LIMIT	DATE	TIME	ANALYST
Hardness, mg equivalent CaCO ₃ /L	415	mg/L	SM2340-B	1.000	11/18/2009	11:42	AL
Anions	8.80	meq/L	SM1030	0.000	11/18/2009	11:42	AL
Nitrate + Nitrite as Nitrogen	0.30	mg/L	EPA 300.0	0.050	11/13/2009	19:06	CM
Balance	2.17	%	SM1030	-10.000	11/18/2009	11:42	AL
Sulfate, SO ₄	58	mg/L	EPA 300.0	1.000	11/13/2009	19:06	CM
Cations	9.19	meq/L	SM1030	0.000	11/18/2009	11:42	AL
Total Dissolved Solids	482	mg/L	SM2540-C	30.000	11/16/2009	13:30	CM
Total Suspended Solids	43	mg/L	SM2540-D	5.000	11/16/2009	13:00	CM
Chloride, Cl	35	mg/L	EPA 300.0	1.000	11/13/2009	19:06	CM
Phosphorus, Total	<0.05	mg/L	SM4500-P E	0.050	11/13/2009	08:30	CM
Alkalinity, mg CaCO ₃ /L (pH 4.5)	330	mg/L	SM2320-B	5.000	11/16/2009	14:20	CM
Carbonate Alkalinity as CaCO ₃	<5	mg/L	SM2320-B	5.000	11/16/2009	14:20	CM
Bicarbonate Alkalinity as CaCO ₃	330	mg/L	SM2320-B	5.000	11/16/2009	14:20	CM
METALS BY ICP							
Calcium, Ca - Dissolved	108.47	mg/L	EPA 200.7	0.030	11/17/2009	14:20	CM
Iron, Fe - Total	0.22	mg/L	EPA 200.7	0.050	11/17/2009	11:54	CM
Magnesium, Mg - Dissolved	34.90	mg/L	EPA 200.7	0.010	11/17/2009	14:20	CM
Manganese, Mn - Total	0.014	mg/L	EPA 200.7	0.002	11/17/2009	11:54	CM
Potassium, K - Dissolved	2.63	mg/L	EPA 200.7	0.140	11/17/2009	14:20	CM
Sodium, Na - Dissolved	19.27	mg/L	EPA 200.7	0.090	11/17/2009	14:20	CM

Respectfully submitted,
SGS NORTH AMERICA INC.


Huntington Laboratory

SGS North America Inc. Minerals Services Division
P.O. Box 1020, Huntington, UT 84528 t (435) 653-2311 f (435) 653-2436 www.us.sgs.com/minerals



Analysis Report

June 30, 2010

CANYON FUEL SKYLINE MINES

HCR 35 BOX 380
ACCOUNTS PAYABLE
HELPER UT 84526

Page 1 of 2

Client Sample ID: WQ 36-2
Date Sampled: Jun 15, 2010
Date Received: Jun 16, 2010
Product Description: WATER

Sample ID By: Skyline
Sample Taken At: WQ 36-2
Sample Taken By: Eric Petersen
Time Sampled: 2000
Time Received: 1525
Mine: 21
Field - pH: 7.46 pH
Field - Conductivity: 689 umhos/cm
Field - Temperature: 6.5 Deg. C

Comments: Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-1003123-011

TESTS	RESULT	UNIT	METHOD	REPORTING	DATE	ANALYZED	
				LIMIT		TIME	ANALYST
Hardness, mg equivalent CaCO ₃ /L	382	mg/L	SM2340-B	1.000	2010-06-25	15:00:00	AL
Acidity	12	mg/L	D1067	5.000	2010-06-25	13:00:00	CM
Nitrate + Nitrite as Nitrogen	0.26	mg/L	EPA 300.0	0.050	2010-06-17	13:58:00	CM
Sulfate, SO ₄	57	mg/L	EPA 300.0	1.000	2010-06-17	20:57:00	CM
Anions	8.60	meq/L	SM1030	0.000	2010-06-25	15:00:00	AL
Balance	-0.54	%	SM1030	-10.000	2010-06-25	15:00:00	AL
Cations	8.50	meq/L	SM1030	0.000	2010-06-25	15:00:00	AL
Total Dissolved Solids	469	mg/L	SM2540-C	30.000	2010-06-17	14:55:00	CM
Total Suspended Solids	10	mg/L	SM2540-D	5.000	2010-06-17	14:55:00	CM
Chloride, Cl	33	mg/L	EPA 300.0	1.000	2010-06-17	20:57:00	CM
Phosphorus, Total	<0.05	mg/L	SM4500-P E	0.050	2010-06-29	07:30:00	AL
Alkalinity, mg CaCO ₃ /L (pH 4.5)	324	mg/L	SM2320-B	5.000	2010-06-18	11:45:00	CM
Carbonate Alkalinity as CaCO ₃	<5	mg/L	SM2320-B	5.000	2010-06-18	11:45:00	CM
Bicarbonate Alkalinity as CaCO ₃	324	mg/L	SM2320-B	5.000	2010-06-18	11:45:00	CM
METALS BY ICP							
Barium, Ba - Dissolved	0.026	mg/L	EPA 200.7	0.002	2010-06-17	18:00:00	CM
Boron, B - Dissolved	0.04	mg/L	EPA 200.7	0.010	2010-06-17	18:00:00	CM
Calcium, Ca - Dissolved	101.86	mg/L	EPA 200.7	0.030	2010-06-17	18:00:00	CM
Copper, Cu - Dissolved	<0.01	mg/L	EPA 200.7	0.010	2010-06-17	18:00:00	CM
Iron, Fe - Total	<0.05	mg/L	EPA 200.7	0.050	2010-06-22	17:34:00	CM

Allen Ludington
Water Lab Supervisor

SGS North America Inc. Minerals Services Division
2035 North Airport Road Huntington t (435) 653-2311 f (435)-653-2436 www.sgs.com/minerals

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Comments: Dissolved Metals Field Filtered

SGS Minerals Sample ID: 782-1003123-011

TESTS	RESULT	UNIT	METHOD	REPORTING	ANALYZED		
				LIMIT	DATE	TIME	ANALYST
METALS BY ICP (continued)							
Iron, Fe - Dissolved	<0.03	mg/L	EPA 200.7	0.030	2010-06-17	18:00:00	CM
Lead, Pb - Dissolved	<0.01	mg/L	EPA 200.7	0.010	2010-06-17	18:00:00	CM
Magnesium, Mg - Dissolved	30.97	mg/L	EPA 200.7	0.010	2010-06-17	18:00:00	CM
Manganese, Mn - Total	<0.002	mg/L	EPA 200.7	0.002	2010-06-22	17:34:00	CM
Manganese, Mn - Dissolved	<0.002	mg/L	EPA 200.7	0.002	2010-06-17	18:00:00	CM
Potassium, K - Dissolved	2.42	mg/L	EPA 200.7	0.140	2010-06-17	18:00:00	CM
Sodium, Na - Dissolved	18.66	mg/L	EPA 200.7	0.090	2010-06-17	18:00:00	CM

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Chemtech-Ford Laboratories

Certificate of Analysis

Lab Sample No.: 1007637-04

Name: Canyon Fuel Co., Skyline Mine

Mine Code: 21

Sample Date: 9/17/2010 5:15 PM

Sample Site: WQ36-2

Receipt Date: 9/20/2010 10:42 AM

Comments:

Sampler: Client

Sample Type: Water

Site No.: None Listed

Field pH:

Field Temp. Deg. C :

Field Flow g/Min.:

Field Cond. umhos/cm:

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Calculations							
Anions, Total	8.9	0.01	meq/L	10/7/2010 11:00	MJB	SM 1030 E	
Cation/Anion Balance	-2.6		%	10/7/2010 11:00	MJB	Calculation	
Cations, Total	8.4	0.01	meq/L	10/7/2010 11:00	MJB	SM 1030E	
Hardness as CaCO ₃	339	1.3	mg/L	10/1/2010 17:13	MJB	2340B	
Inorganic							
Alkalinity - Bicarbonate	410	1.0	mg/L	9/21/2010 11:00	TSM	SM 2320 B	
Alkalinity - Carbonate	ND	1.0	mg/L	9/21/2010 11:00	TSM	SM 2320 B	
Alkalinity - CO ₂	302	1.0	mg/L	9/21/2010 11:00	TSM	SM 2320 B	
Alkalinity - Hydroxide	ND	1.0	mg/L	9/21/2010 11:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO ₃)	337	1.0	mg/L	9/21/2010 11:00	TSM	SM 2320 B	
Chloride	34	1	mg/L	9/22/2010 6:30	TSM	EPA 300.0	
Nitrate + Nitrite (Total)	0.2	0.1	mg/L	9/27/2010 10:30	AKL	SM 4500 NO ₃ -F	
pH	7.7	0.1	pH Units	9/21/2010 16:00	JSH	SM 4500 H-B	SPH
Phosphorus, Total	0.03	0.01	mg/L	9/24/2010 9:00	TSM	SM 4500 PB5E	
Sulfate	58	1	mg/L	9/22/2010 6:30	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	474	10	mg/L	9/23/2010 9:45	JSH	SM 2540 C	
Total Suspended Solids (TSS)	55	4	mg/L	9/21/2010 14:05	JSH	SM 2540 D	
Metals							
Boron, Dissolved	ND	0.05	mg/L	9/28/2010 18:44	MJB	EPA 200.7	
Barium, Dissolved	0.023	0.005	mg/L	9/28/2010 18:44	MJB	EPA 200.7	
Calcium, Dissolved	102	0.2	mg/L	9/28/2010 18:44	MJB	EPA 200.7	
Calcium, Total	90.4	0.2	mg/L	10/1/2010 17:13	MJB	EPA 200.7	
Copper, Dissolved	ND	0.005	mg/L	9/28/2010 18:44	MJB	EPA 200.7	
Iron, Dissolved	ND	0.02	mg/L	9/28/2010 18:44	MJB	EPA 200.7	
Iron, Total	0.14	0.02	mg/L	10/1/2010 17:13	MJB	EPA 200.7	
Lead, Dissolved	ND	0.02	mg/L	9/28/2010 18:44	MJB	EPA 200.7	
Magnesium, Dissolved	30.8	0.2	mg/L	9/28/2010 18:44	MJB	EPA 200.7	
Magnesium, Total	27.5	0.2	mg/L	10/1/2010 17:13	MJB	EPA 200.7	
Manganese, Dissolved	0.016	0.005	mg/L	9/28/2010 18:44	MJB	EPA 200.7	
Manganese, Total	0.011	0.005	mg/L	10/1/2010 17:13	MJB	EPA 200.7	
Potassium, Dissolved	2.0	0.2	mg/L	9/28/2010 18:44	MJB	EPA 200.7	
Sodium, Dissolved	17.6	0.5	mg/L	9/28/2010 18:44	MJB	EPA 200.7	