

Synthetic Precipitation Leaching Procedure Results

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100061-5
Sample Name: SHMW-04D@ 21-23'
Sample Date/Time: 09/26/2006 16:15:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	10	mg/l	ES	5	305.2	05/04/2007 09:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	46	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	38	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/18/2007 12:35:00 AM
Electrical Conductivity (SPLP)	280	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.40	mg/l	MRK	0.1	300.0	05/18/2007 12:35:00 AM
Hardness as CaCO3 (SPLP)	31	mg/l	KC	4	2340B	05/04/2007 01:40:00 PM
pH (SPLP)	6.7	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:00:00 PM
Sodium Absorption Ratio (SPLP)	3.31	---	KC	0.1	20b	05/04/2007 01:40:00 PM
Total Dissolved Solids (SPLP)	171	mg/l	RM	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/27/2007 08:00:00 AM
Calcium as Ca (SPLP)	3.5	mg/l	KC	0.5	200.7	05/04/2007 01:40:00 PM
Magnesium as Mg (SPLP)	5.3	mg/l	KC	0.5	200.7	05/04/2007 01:40:00 PM
Potassium as K (SPLP)	5.8	mg/l	KC	0.5	200.7	05/04/2007 01:40:00 PM
Sodium as Na (SPLP)	42 J	mg/l	KC	0.5	200.7	05/04/2007 01:40:00 PM
Aluminum as Al (SPLP)	0.08	mg/l	KC	0.05	200.7	05/04/2007 01:40:00 PM
Arsenic as As (SPLP)	0.001	mg/l	BH	0.001	200.8	05/08/2007 07:20:00 PM
Barium as Ba (SPLP)	0.11	mg/l	BH	0.005	200.8	05/08/2007 07:20:00 PM
Boron as B (SPLP)	0.4 B	mg/l	KC	0.1	200.7	05/04/2007 01:40:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	05/08/2007 07:20:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 07:20:00 PM
Copper as Cu (SPLP)	0.001	mg/l	BH	0.001	200.8	05/08/2007 07:20:00 PM
Iron as Fe (SPLP)	0.16	mg/l	KC	0.01	200.7	05/04/2007 01:40:00 PM
Iron as Fe (Total, SPLP)	0.76	mg/l	BH	0.01	200.7	05/09/2007 06:34:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	05/08/2007 07:20:00 PM
Manganese as Mn (SPLP)	0.077	mg/l	BH	0.005	200.8	05/08/2007 07:20:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	05/09/2007 08:49:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 01:40:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 07:20:00 PM
Selenium as Se (SPLP)	0.005	mg/l	BH	0.001	200.8	05/08/2007 07:20:00 PM
Uranium as U (SPLP)	<0.001	mg/l	AH	0.001	200.8	05/24/2007 12:20:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 07:20:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100061-5
Sample Name: SHMW-04D@ 21-23'
Sample Date/Time: 09/26/2006 16:15:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.10 B	mg/l	KC	0.01	200.7	05/04/2007 01:40:00 PM
SPLP Extraction Date	6700	---	LL	---	1312	04/23/2007 04:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1823	---	KC	---	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100061-8
Sample Name: SHMW-04D@ 37-38'
Sample Date/Time: 09/27/2006 09:00:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/04/2007 09:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	60	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	3	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	54	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/18/2007 01:36:00 AM
Electrical Conductivity (SPLP)	259	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.47	mg/l	MRK	0.1	300.0	05/18/2007 01:36:00 AM
Hardness as CaCO3 (SPLP)	27	mg/l	KC	4	2340B	05/04/2007 01:55:00 PM
pH (SPLP)	8.3	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:00:00 PM
Sodium Absorption Ratio (SPLP)	3.61	---	KC	0.1	20b	05/04/2007 01:55:00 PM
Total Dissolved Solids (SPLP)	169	mg/l	RM	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/27/2007 08:00:00 AM
Calcium as Ca (SPLP)	4.5	mg/l	KC	0.5	200.7	05/04/2007 01:55:00 PM
Magnesium as Mg (SPLP)	3.8	mg/l	KC	0.5	200.7	05/04/2007 01:55:00 PM
Potassium as K (SPLP)	4.9	mg/l	KC	0.5	200.7	05/04/2007 01:55:00 PM
Sodium as Na (SPLP)	43	mg/l	KC	0.5	200.7	05/04/2007 01:55:00 PM
Aluminum as Al (SPLP)	0.83	mg/l	KC	0.05	200.7	05/04/2007 01:55:00 PM
Arsenic as As (SPLP)	0.007	mg/l	BH	0.001	200.8	05/08/2007 07:53:00 PM
Barium as Ba (SPLP)	0.36	mg/l	BH	0.005	200.8	05/08/2007 07:53:00 PM
Boron as B (SPLP)	0.2 B	mg/l	KC	0.1	200.7	05/04/2007 01:55:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	05/08/2007 07:53:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	05/08/2007 07:53:00 PM
Copper as Cu (SPLP)	0.004	mg/l	BH	0.001	200.8	05/08/2007 07:53:00 PM
Iron as Fe (SPLP)	0.34	mg/l	KC	0.01	200.7	05/04/2007 01:55:00 PM
Iron as Fe (Total, SPLP)	0.50	mg/l	BH	0.01	200.7	05/09/2007 06:45:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	05/08/2007 07:53:00 PM
Manganese as Mn (SPLP)	0.021	mg/l	BH	0.005	200.8	05/08/2007 07:53:00 PM
Mercury as Hg (SPLP)	0.00004	mg/l	BH	0.00001	200.8	05/09/2007 09:06:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 01:55:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 07:53:00 PM
Selenium as Se (SPLP)	0.006	mg/l	BH	0.001	200.8	05/08/2007 07:53:00 PM
Uranium as U (SPLP)	0.001	mg/l	AH	0.001	200.8	05/24/2007 04:33:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 07:53:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100061-8
Sample Name: SHMW-04D@ 37-38'
Sample Date/Time: 09/27/2006 09:00:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.02 B	mg/l	KC	0.01	200.7	05/04/2007 01:55:00 PM
SPLP Extraction Date	6700	---	LL	---	1312	04/23/2007 04:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1823	---	KC	---	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100061-11
Sample Name: SHMW-04D@ 54'
Sample Date/Time: 09/27/2006 09:35:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/04/2007 09:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	117	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	96	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/18/2007 03:07:00 AM
Electrical Conductivity (SPLP)	363	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.39	mg/l	MRK	0.1	300.0	05/18/2007 03:07:00 AM
Hardness as CaCO3 (SPLP)	6	mg/l	KC	4	2340B	05/04/2007 02:24:00 PM
pH (SPLP)	7.4	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:00:00 PM
Sodium Absorption Ratio (SPLP)	13.5	---	KC	0.1	20b	05/04/2007 02:24:00 PM
Total Dissolved Solids (SPLP)	270	mg/l	RM	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/27/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.3	mg/l	KC	0.5	200.7	05/04/2007 02:24:00 PM
Magnesium as Mg (SPLP)	0.7	mg/l	KC	0.5	200.7	05/04/2007 02:24:00 PM
Potassium as K (SPLP)	2.6	mg/l	KC	0.5	200.7	05/04/2007 02:24:00 PM
Sodium as Na (SPLP)	77	mg/l	KC	0.5	200.7	05/04/2007 02:24:00 PM
Aluminum as Al (SPLP)	0.62	mg/l	KC	0.05	200.7	05/04/2007 02:24:00 PM
Arsenic as As (SPLP)	0.021	mg/l	BH	0.001	200.8	05/08/2007 08:17:00 PM
Barium as Ba (SPLP)	0.25	mg/l	BH	0.005	200.8	05/08/2007 08:17:00 PM
Boron as B (SPLP)	0.2B	mg/l	KC	0.1	200.7	05/04/2007 02:24:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	05/08/2007 08:17:00 PM
Chromium as Cr (SPLP)	0.003	mg/l	BH	0.001	200.8	05/08/2007 08:17:00 PM
Copper as Cu (SPLP)	0.027	mg/l	BH	0.001	200.8	05/08/2007 08:17:00 PM
Iron as Fe (SPLP)	0.38	mg/l	KC	0.01	200.7	05/04/2007 02:24:00 PM
Iron as Fe (Total, SPLP)	0.88	mg/l	BH	0.01	200.7	05/09/2007 07:07:00 PM
Lead as Pb (SPLP)	0.003	mg/l	BH	0.001	200.8	05/08/2007 08:17:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	05/08/2007 08:17:00 PM
Mercury as Hg (SPLP)	0.00008	mg/l	BH	0.00001	200.8	05/09/2007 09:38:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 02:24:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 08:17:00 PM
Selenium as Se (SPLP)	0.014	mg/l	BH	0.001	200.8	05/08/2007 08:17:00 PM
Uranium as U (SPLP)	0.002	mg/l	AH	0.001	200.8	05/24/2007 12:39:00 PM
Vanadium as V (SPLP)	0.07	mg/l	BH	0.01	200.8	05/08/2007 08:17:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100061-11
Sample Name: SHMW-04D@ 54'
Sample Date/Time: 09/27/2006 09:35:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.08 B	mg/l	KC	0.01	200.7	05/04/2007 02:24:00 PM
SPLP Extraction Date	6700	---	LL	---	1312	04/23/2007 04:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1823	---	KC	---	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100061-13
Sample Name: SHMW-04D@ 61'
Sample Date/Time: 09/27/2006 10:05:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	15	mg/l	ES	5	305.2	05/04/2007 09:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	48	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	39	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/18/2007 03:38:00 AM
Electrical Conductivity (SPLP)	299	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.53	mg/l	MRK	0.1	300.0	05/18/2007 03:38:00 AM
Hardness as CaCO3 (SPLP)	<4	mg/l	KC	4	2340B	05/04/2007 02:48:00 PM
pH (SPLP)	6.6	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:00:00 PM
Sodium Absorption Ratio (SPLP)	20.4	---	KC	0.1	20b	05/04/2007 02:28:00 PM
Total Dissolved Solids (SPLP)	271	mg/l	RM	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/27/2007 08:00:00 AM
Calcium as Ca (SPLP)	0.7	mg/l	KC	0.5	200.7	05/04/2007 02:28:00 PM
Magnesium as Mg (SPLP)	<0.5	mg/l	KC	0.5	200.7	05/04/2007 02:28:00 PM
Potassium as K (SPLP)	1.3	mg/l	KC	0.5	200.7	05/04/2007 02:28:00 PM
Sodium as Na (SPLP)	62	mg/l	KC	0.5	200.7	05/04/2007 02:28:00 PM
Aluminum as Al (SPLP)	0.41	mg/l	KC	0.05	200.7	05/04/2007 02:28:00 PM
Arsenic as As (SPLP)	0.082	mg/l	BH	0.001	200.8	05/08/2007 08:23:00 PM
Barium as Ba (SPLP)	0.16	mg/l	BH	0.005	200.8	05/08/2007 08:23:00 PM
Boron as B (SPLP)	0.2 B	mg/l	KC	0.1	200.7	05/04/2007 02:28:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	05/08/2007 08:23:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	05/08/2007 08:23:00 PM
Copper as Cu (SPLP)	0.005	mg/l	BH	0.001	200.8	05/08/2007 08:23:00 PM
Iron as Fe (SPLP)	0.28	mg/l	KC	0.01	200.7	05/04/2007 02:28:00 PM
Iron as Fe (Total, SPLP)	1.24	mg/l	BH	0.01	200.7	05/09/2007 07:11:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	05/08/2007 08:23:00 PM
Manganese as Mn (SPLP)	0.006	mg/l	BH	0.005	200.8	05/08/2007 08:23:00 PM
Mercury as Hg (SPLP)	0.00003	mg/l	BH	0.00001	200.8	05/09/2007 09:42:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 02:28:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 08:23:00 PM
Selenium as Se (SPLP)	0.003	mg/l	BH	0.001	200.8	05/08/2007 08:23:00 PM
Uranium as U (SPLP)	<0.001	mg/l	AH	0.001	200.8	05/24/2007 12:41:00 PM
Vanadium as V (SPLP)	0.02	mg/l	BH	0.01	200.8	05/08/2007 08:23:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100061-30
Sample Name: SHMW-04D@ 158-163'
Sample Date/Time: 09/28/2006 08:30:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/04/2007 09:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	39	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	2	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	34	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/18/2007 04:08:00 AM
Electrical Conductivity (SPLP)	332	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.84	mg/l	MRK	0.1	300.0	05/18/2007 04:08:00 AM
Hardness as CaCO3 (SPLP)	15	mg/l	KC	4	2340B	05/04/2007 02:32:00 PM
pH (SPLP)	8.3	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:00:00 PM
Sodium Absorption Ratio (SPLP)	7.59	---	KC	0.1	20b	05/04/2007 02:32:00 PM
Total Dissolved Solids (SPLP)	705	mg/l	RM	20	160.1	04/30/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<13	mg/l	RM	4	160.2	04/30/2007 08:00:00 AM
Calcium as Ca (SPLP)	4.2	mg/l	KC	0.5	200.7	05/04/2007 02:32:00 PM
Magnesium as Mg (SPLP)	1.1	mg/l	KC	0.5	200.7	05/04/2007 02:32:00 PM
Potassium as K (SPLP)	2.2	mg/l	KC	0.5	200.7	05/04/2007 02:32:00 PM
Sodium as Na (SPLP)	67	mg/l	KC	0.5	200.7	05/04/2007 02:32:00 PM
Aluminum as Al (SPLP)	0.61	mg/l	KC	0.05	200.7	05/04/2007 02:32:00 PM
Arsenic as As (SPLP)	0.042	mg/l	BH	0.001	200.8	05/08/2007 08:29:00 PM
Barium as Ba (SPLP)	0.60	mg/l	BH	0.005	200.8	05/08/2007 08:29:00 PM
Boron as B (SPLP)	0.7 B	mg/l	KC	0.1	200.7	05/04/2007 02:32:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	05/08/2007 08:29:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	05/08/2007 08:29:00 PM
Copper as Cu (SPLP)	0.004	mg/l	BH	0.001	200.8	05/08/2007 08:29:00 PM
Iron as Fe (SPLP)	0.68	mg/l	KC	0.01	200.7	05/04/2007 02:32:00 PM
Iron as Fe (Total, SPLP)	8.74	mg/l	BH	0.01	200.7	05/09/2007 07:14:00 PM
Lead as Pb (SPLP)	0.005	mg/l	BH	0.001	200.8	05/08/2007 08:29:00 PM
Manganese as Mn (SPLP)	0.026	mg/l	BH	0.005	200.8	05/08/2007 08:29:00 PM
Mercury as Hg (SPLP)	0.00004	mg/l	BH	0.00001	200.8	05/09/2007 09:47:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 02:32:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	05/08/2007 08:29:00 PM
Selenium as Se (SPLP)	0.003	mg/l	BH	0.001	200.8	05/08/2007 08:29:00 PM
Uranium as U (SPLP)	0.001	mg/l	AH	0.001	200.8	05/24/2007 12:43:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 08:29:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100061-13
Sample Name: SHMW-04D@ 61'
Sample Date/Time: 09/27/2006 10:05:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.06 B	mg/l	KC	0.01	200.7	05/04/2007 02:28:00 PM
SPLP Extraction Date	6700	---	LL	---	1312	04/23/2007 04:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1823	---	KC	---	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100061-30
Sample Name: SHMW-04D@ 158-163'
Sample Date/Time: 09/28/2006 08:30:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.32	mg/l	KC	0.01	200.7	05/04/2007 02:32:00 PM
SPLP Extraction Date	6700	---	LL	---	1312	04/24/2007 04:35:00 PM
SPLP ICP/AA Batch #/Digest Date	1823	---	KC	---	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
 Project Name: SOUTH HEART POWER PROJECT
 Project No.: 063-2174
 Laboratory No.: 2000100061-35
 Sample Name: SHMW-04D@ 185-190'
 Sample Date/Time: 09/28/2006 11:30:
 Collected by: RYAN TOLENE
 Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/04/2007 09:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	39	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	32	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/18/2007 04:38:00 AM
Electrical Conductivity (SPLP)	258	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.79	mg/l	MRK	0.1	300.0	05/18/2007 04:38:00 AM
Hardness as CaCO3 (SPLP)	12	mg/l	KC	4	2340B	05/04/2007 02:35:00 PM
pH (SPLP)	6.9	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:00:00 PM
Sodium Absorption Ratio (SPLP)	6.48	---	KC	0.1	20b	05/04/2007 02:35:00 PM
Total Dissolved Solids (SPLP)	417	mg/l	RM	20	160.1	04/30/2007 08:00:00 AM
Total Suspended Solids (SPLP)	8	mg/l	RM	4	160.2	04/30/2007 08:00:00 AM
Calcium as Ca (SPLP)	2.9	mg/l	KC	0.5	200.7	05/04/2007 02:35:00 PM
Magnesium as Mg (SPLP)	1.2	mg/l	KC	0.5	200.7	05/04/2007 02:35:00 PM
Potassium as K (SPLP)	1.4	mg/l	KC	0.5	200.7	05/04/2007 02:35:00 PM
Sodium as Na (SPLP)	52	mg/l	KC	0.5	200.7	05/04/2007 02:35:00 PM
Aluminum as Al (SPLP)	0.90	mg/l	KC	0.05	200.7	05/04/2007 02:35:00 PM
Arsenic as As (SPLP)	0.11	mg/l	BH	0.001	200.8	05/08/2007 08:35:00 PM
Barium as Ba (SPLP)	1.24	mg/l	BH	0.005	200.8	05/08/2007 08:35:00 PM
Boron as B (SPLP)	0.4B	mg/l	KC	0.1	200.7	05/04/2007 02:35:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	05/08/2007 08:35:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	05/08/2007 08:35:00 PM
Copper as Cu (SPLP)	0.003	mg/l	BH	0.001	200.8	05/08/2007 08:35:00 PM
Iron as Fe (SPLP)	1.49	mg/l	KC	0.01	200.7	05/04/2007 02:35:00 PM
Iron as Fe (Total, SPLP)	5.20	mg/l	BH	0.01	200.7	05/09/2007 07:18:00 PM
Lead as Pb (SPLP)	0.008	mg/l	BH	0.001	200.8	05/08/2007 08:35:00 PM
Manganese as Mn (SPLP)	0.037	mg/l	BH	0.005	200.8	05/08/2007 08:35:00 PM
Mercury as Hg (SPLP)	0.00006	mg/l	BH	0.00001	200.8	05/09/2007 09:52:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 02:35:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 08:35:00 PM
Selenium as Se (SPLP)	0.002	mg/l	BH	0.001	200.8	05/08/2007 08:35:00 PM
Uranium as U (SPLP)	<0.001	mg/l	AH	0.001	200.8	05/24/2007 12:45:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 08:35:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100061-35
Sample Name: SHMW-04D@ 185-190'
Sample Date/Time: 09/28/2006 11:30:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.10 B	mg/l	KC	0.01	200.7	05/04/2007 02:35:00 PM
SPLP Extraction Date	6700	---	LL	---	1312	04/24/2007 04:35:00 PM
SPLP ICP/AA Batch #/Digest Date	1823	---	KC	---	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100061-37
Sample Name: SHMW-04D@ 195-200'
Sample Date/Time: 09/28/2006 13:05:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	11	mg/l	ES	5	305.2	05/04/2007 09:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	93	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	76	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/18/2007 05:09:00 AM
Electrical Conductivity (SPLP)	375	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.35	mg/l	MRK	0.1	300.0	05/18/2007 05:09:00 AM
Hardness as CaCO3 (SPLP)	7	mg/l	KC	4	2340B	05/04/2007 02:39:00 PM
pH (SPLP)	7.0	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:00:00 PM
Sodium Absorption Ratio (SPLP)	13.1	---	KC	0.1	20b	05/04/2007 02:39:00 PM
Total Dissolved Solids (SPLP)	353	mg/l	RM	20	160.1	04/30/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<10	mg/l	RM	4	160.2	04/30/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.3	mg/l	KC	0.5	200.7	05/04/2007 02:39:00 PM
Strontium as Mg (SPLP)	0.8	mg/l	KC	0.5	200.7	05/04/2007 02:39:00 PM
Strontium as K (SPLP)	1.9	mg/l	KC	0.5	200.7	05/04/2007 02:39:00 PM
Sodium as Na (SPLP)	77	mg/l	KC	0.5	200.7	05/04/2007 02:39:00 PM
Aluminum as Al (SPLP)	1.48	mg/l	KC	0.05	200.7	05/04/2007 02:39:00 PM
Arsenic as As (SPLP)	0.026	mg/l	BH	0.001	200.8	05/08/2007 08:41:00 PM
Barium as Ba (SPLP)	0.38	mg/l	BH	0.005	200.8	05/08/2007 08:41:00 PM
Boron as B (SPLP)	0.3 B	mg/l	KC	0.1	200.7	05/04/2007 02:39:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	05/08/2007 08:41:00 PM
Chromium as Cr (SPLP)	0.004	mg/l	BH	0.001	200.8	05/08/2007 08:41:00 PM
Copper as Cu (SPLP)	0.022	mg/l	BH	0.001	200.8	05/08/2007 08:41:00 PM
Iron as Fe (SPLP)	0.98	mg/l	KC	0.01	200.7	05/04/2007 02:39:00 PM
Iron as Fe (Total, SPLP)	2.28	mg/l	BH	0.01	200.7	05/09/2007 07:22:00 PM
Lead as Pb (SPLP)	0.003	mg/l	BH	0.001	200.8	05/08/2007 08:41:00 PM
Manganese as Mn (SPLP)	0.032	mg/l	BH	0.005	200.8	05/08/2007 08:41:00 PM
Mercury as Hg (SPLP)	0.00004	mg/l	BH	0.00001	200.8	05/09/2007 09:56:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 02:39:00 PM
Nickel as Ni (SPLP)	0.02	mg/l	BH	0.01	200.8	05/08/2007 08:41:00 PM
Selenium as Se (SPLP)	0.017	mg/l	BH	0.001	200.8	05/08/2007 08:41:00 PM
Uranium as U (SPLP)	0.003	mg/l	AH	0.001	200.8	05/24/2007 12:47:00 PM
Vanadium as V (SPLP)	0.06	mg/l	BH	0.01	200.8	05/08/2007 08:41:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100061-37
Sample Name: SHMW-04D@ 195-200'
Sample Date/Time: 09/28/2006 13:05:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.15 B	mg/l	KC	0.01	200.7	05/04/2007 02:39:00 PM
SPLP Extraction Date	6700	---	LL	---	1312	04/24/2007 04:35:00 PM
SPLP ICP/AA Batch #/Digest Date	1823	---	KC	---	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100062-12
Sample Name: SHMW05, 57-63
Sample Date/Time: 10/01/2006 10:46:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	10	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	32	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	27	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/20/2007 01:02:00 PM
Electrical Conductivity (SPLP)	289	umhos/cm	TD	10	2510B	05/21/2007 05:58:00 PM
Fluoride (undistilled) (SPLP)	0.57	mg/l	MRK	0.1	300.0	05/20/2007 01:02:00 PM
Hardness as CaCO3 (SPLP)	8	mg/l	KC	4	2340B	05/04/2007 05:57:00 PM
pH (SPLP)	6.3	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	7.68	---	KC	0.1	20b	05/04/2007 05:57:00 PM
Total Dissolved Solids (SPLP)	441	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	16 HT	mg/l	RM	4	160.2	05/07/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.6	mg/l	KC	0.5	200.7	05/04/2007 05:57:00 PM
Magnesium as Mg (SPLP)	0.9	mg/l	KC	0.5	200.7	05/04/2007 05:57:00 PM
Potassium as K (SPLP)	1.8	mg/l	KC	0.5	200.7	05/04/2007 05:57:00 PM
Sodium as Na (SPLP)	49	mg/l	KC	0.5	200.7	05/04/2007 05:57:00 PM
Aluminum as Al (SPLP)	0.75	mg/l	KC	0.05	200.7	05/04/2007 05:57:00 PM
Arsenic as As (SPLP)	0.031	mg/l	BH	0.001	200.8	05/08/2007 11:39:00 PM
Barium as Ba (SPLP)	0.38	mg/l	BH	0.005	200.8	05/08/2007 11:39:00 PM
Boron as B (SPLP)	0.4	mg/l	KC	0.1	200.7	05/04/2007 05:57:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	05/08/2007 11:39:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	05/08/2007 11:39:00 PM
Copper as Cu (SPLP)	0.011	mg/l	BH	0.001	200.8	05/08/2007 11:39:00 PM
Iron as Fe (SPLP)	0.61	mg/l	KC	0.01	200.7	05/04/2007 05:57:00 PM
Iron as Fe (Total, SPLP)	4.22	mg/l	BH	0.01	200.7	05/09/2007 08:06:00 PM
Lead as Pb (SPLP)	0.003	mg/l	BH	0.001	200.8	05/08/2007 11:39:00 PM
Manganese as Mn (SPLP)	0.013	mg/l	BH	0.005	200.8	05/08/2007 11:39:00 PM
Mercury as Hg (SPLP)	0.00016	mg/l	AH	0.00001	200.8	05/21/2007 02:28:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 05:57:00 PM
Nickel as Ni (SPLP)	0.02	mg/l	BH	0.01	200.8	05/08/2007 11:39:00 PM
Selenium as Se (SPLP)	0.009	mg/l	BH	0.001	200.8	05/08/2007 11:39:00 PM
Uranium as U (SPLP)	<0.001	mg/l	AH	0.001	200.8	05/24/2007 01:49:00 PM
Vanadium as V (SPLP)	0.03	mg/l	BH	0.01	200.8	05/08/2007 11:39:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100062-12
Sample Name: SHMW05, 57-63
Sample Date/Time: 10/01/2006 10:46:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.19	mg/l	KC	0.01	200.7	05/04/2007 05:57:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/26/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100062-21
Sample Name: SHMW05, 105-110
Sample Date/Time: 10/01/2006 15:01:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	73	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	59	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	4	mg/l	MRK	1	300.0	05/20/2007 01:32:00 PM
Electrical Conductivity (SPLP)	222	umhos/cm	TD	10	2510B	05/21/2007 05:58:00 PM
Fluoride (undistilled) (SPLP)	0.48	mg/l	MRK	0.1	300.0	05/20/2007 01:32:00 PM
Hardness as CaCO3 (SPLP)	26	mg/l	KC	4	2340B	05/04/2007 06:01:00 PM
pH (SPLP)	8.1	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	3.24	—	KC	0.1	20b	05/04/2007 06:01:00 PM
Total Dissolved Solids (SPLP)	188	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	6 HT	mg/l	RM	4	160.2	05/07/2007 08:00:00 AM
Calcium as Ca (SPLP)	6.8	mg/l	KC	0.5	200.7	05/04/2007 06:01:00 PM
Magnesium as Mg (SPLP)	2.2	mg/l	KC	0.5	200.7	05/04/2007 06:01:00 PM
Potassium as K (SPLP)	4.9	mg/l	KC	0.5	200.7	05/04/2007 06:01:00 PM
Sodium as Na (SPLP)	38	mg/l	KC	0.5	200.7	05/04/2007 06:01:00 PM
Aluminum as Al (SPLP)	0.62	mg/l	KC	0.05	200.7	05/04/2007 06:01:00 PM
Arsenic as As (SPLP)	0.011	mg/l	BH	0.001	200.8	05/08/2007 11:45:00 PM
Barium as Ba (SPLP)	0.43	mg/l	BH	0.005	200.8	05/08/2007 11:45:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/04/2007 06:01:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	05/08/2007 11:45:00 PM
Chromium as Cr (SPLP)	0.003	mg/l	BH	0.001	200.8	05/08/2007 11:45:00 PM
Copper as Cu (SPLP)	0.002 J	mg/l	BH	0.001	200.8	05/08/2007 11:45:00 PM
Iron as Fe (SPLP)	0.54	mg/l	KC	0.01	200.7	05/04/2007 06:01:00 PM
Iron as Fe (Total, SPLP)	1.72	mg/l	BH	0.01	200.7	05/09/2007 08:10:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	05/08/2007 11:45:00 PM
Manganese as Mn (SPLP)	0.032	mg/l	BH	0.005	200.8	05/08/2007 11:45:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	AH	0.00001	200.8	05/21/2007 02:33:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 06:01:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 11:45:00 PM
Selenium as Se (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 11:45:00 PM
Uranium as U (SPLP)	<0.001	mg/l	AH	0.001	200.8	05/24/2007 01:51:00 PM
Zinc as Zn (SPLP)	0.03	mg/l	BH	0.01	200.8	05/08/2007 11:45:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100062-21
Sample Name: SHMW05, 105-110
Sample Date/Time: 10/01/2006 15:01:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.03	mg/l	KC	0.01	200.7	05/04/2007 06:01:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/26/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch #/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch #/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100095-9
Sample Name: SHMW05, 146-151
Sample Date/Time: 10/02/2006 10:17:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	60	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	49	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/20/2007 09:08:00 PM
Electrical Conductivity (SPLP)	169	umhos/cm	CC	10	2510B	05/18/2007 05:58:00 PM
Fluoride (undistilled) (SPLP)	0.33	mg/l	MRK	0.1	300.0	05/20/2007 09:08:00 PM
Hardness as CaCO3 (SPLP)	4	mg/l	KC	4	2340B	05/04/2007 06:08:00 PM
pH (SPLP)	7.1	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	9.14	—	KC	0.1	20b	05/04/2007 06:08:00 PM
Total Dissolved Solids (SPLP)	154	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<5*	mg/l	RM	4	160.2	05/02/2007 08:00:00 AM
Calcium as Ca (SPLP)	0.7	mg/l	KC	0.5	200.7	05/04/2007 06:08:00 PM
Magnesium as Mg (SPLP)	0.5	mg/l	KC	0.5	200.7	05/04/2007 06:08:00 PM
Potassium as K (SPLP)	1.2	mg/l	KC	0.5	200.7	05/04/2007 06:08:00 PM
Sodium as Na (SPLP)	41	mg/l	KC	0.5	200.7	05/04/2007 06:08:00 PM
Aluminum as Al (SPLP)	1.15	mg/l	KC	0.05	200.7	05/04/2007 06:08:00 PM
Arsenic as As (SPLP)	0.018	mg/l	BH	0.001	200.8	05/09/2007 01:34:00 AM
Barium as Ba (SPLP)	0.13	mg/l	BH	0.005	200.8	05/09/2007 01:34:00 AM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/04/2007 06:08:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	05/09/2007 01:34:00 AM
Chromium as Cr (SPLP)	0.004	mg/l	BH	0.001	200.8	05/09/2007 01:34:00 AM
Copper as Cu (SPLP)	0.004	mg/l	BH	0.001	200.8	05/09/2007 01:34:00 AM
Iron as Fe (SPLP)	0.52 J	mg/l	KC	0.01	200.7	05/04/2007 06:08:00 PM
Iron as Fe (Total, SPLP)	1.34	mg/l	BH	0.01	200.7	05/09/2007 09:24:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 01:34:00 AM
Manganese as Mn (SPLP)	0.007	mg/l	BH	0.005	200.8	05/09/2007 01:34:00 AM
Mercury as Hg (SPLP)	0.00006 J	mg/l	AH	0.00001	200.8	05/21/2007 04:10:00 PM
Molybdenum as Mo (SPLP)	0.05	mg/l	KC	0.05	200.7	05/04/2007 06:08:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/09/2007 01:34:00 AM
Selenium as Se (SPLP)	0.001	mg/l	BH	0.001	200.8	05/09/2007 01:34:00 AM
Uranium as U (SPLP)	<0.001	mg/l	AH	0.001	200.8	05/24/2007 01:55:00 PM
Vanadium as V (SPLP)	0.02	mg/l	BH	0.01	200.8	05/09/2007 01:34:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100095-9
Sample Name: SHMW05, 146-151
Sample Date/Time: 10/02/2006 10:17:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.09	mg/l	KC	0.01	200.7	05/04/2007 06:08:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/26/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100095-10
Sample Name: SHMW05, 175-177.5
Sample Date/Time: 10/02/2006 15:47:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	10	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	45	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	37	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/19/2007 03:56:00 AM
Electrical Conductivity (SPLP)	341	umhos/cm	CC	10	2510B	05/18/2007 05:58:00 PM
Fluoride (undistilled) (SPLP)	0.72	mg/l	MRK	0.1	300.0	05/19/2007 03:56:00 AM
Hardness as CaCO3 (SPLP)	10	mg/l	KC	4	2340B	05/04/2007 06:23:00 PM
pH (SPLP)	6.8	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	9.90	---	KC	0.1	20b	05/04/2007 06:23:00 PM
Total Dissolved Solids (SPLP)	553	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<15*	mg/l	RM	4	160.2	05/02/2007 08:00:00 AM
Calcium as Ca (SPLP)	2.2	mg/l	KC	0.5	200.7	05/04/2007 06:23:00 PM
Magnesium as Mg (SPLP)	1.1	mg/l	KC	0.5	200.7	05/04/2007 06:23:00 PM
Potassium as K (SPLP)	2.5	mg/l	KC	0.5	200.7	05/04/2007 06:23:00 PM
Sodium as Na (SPLP)	72	mg/l	KC	0.5	200.7	05/04/2007 06:23:00 PM
Aluminum as Al (SPLP)	1.06	mg/l	KC	0.05	200.7	05/04/2007 06:23:00 PM
Arsenic as As (SPLP)	0.044	mg/l	BH	0.001	200.8	05/09/2007 02:06:00 AM
Barium as Ba (SPLP)	1.15	mg/l	BH	0.005	200.8	05/09/2007 02:06:00 AM
Boron as B (SPLP)	0.6	mg/l	KC	0.1	200.7	05/04/2007 06:23:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	05/09/2007 02:06:00 AM
Chromium as Cr (SPLP)	0.005	mg/l	BH	0.001	200.8	05/09/2007 02:06:00 AM
Copper as Cu (SPLP)	0.028	mg/l	BH	0.001	200.8	05/09/2007 02:06:00 AM
Iron as Fe (SPLP)	0.99	mg/l	KC	0.01	200.7	05/04/2007 06:23:00 PM
Iron as Fe (Total, SPLP)	6.97	mg/l	BH	0.01	200.7	05/09/2007 09:35:00 PM
Lead as Pb (SPLP)	0.013	mg/l	BH	0.001	200.8	05/09/2007 02:06:00 AM
Manganese as Mn (SPLP)	0.028	mg/l	BH	0.005	200.8	05/09/2007 02:06:00 AM
Mercury as Hg (SPLP)	0.00014	mg/l	AH	0.00001	200.8	05/21/2007 04:26:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 06:23:00 PM
Nickel as Ni (SPLP)	0.07	mg/l	BH	0.01	200.8	05/09/2007 02:06:00 AM
Selenium as Se (SPLP)	0.014	mg/l	BH	0.001	200.8	05/09/2007 02:06:00 AM
Uranium as U (SPLP)	0.002	mg/l	AH	0.001	200.8	05/24/2007 02:01:00 PM
Vanadium as V (SPLP)	0.10	mg/l	BH	0.01	200.8	05/09/2007 02:06:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100095-10
Sample Name: SHMW05, 175-177.5
Sample Date/Time: 10/02/2006 15:47:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.33	mg/l	KC	0.01	200.7	05/04/2007 06:23:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/26/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100095-16
Sample Name: SHMW05, 210-215
Sample Date/Time: 10/03/2006 09:54:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	9	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	79	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	65	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/19/2007 04:27:00 AM
Electrical Conductivity (SPLP)	220	umhos/cm	CC	10	2510B	05/18/2007 05:58:00 PM
Fluoride (undistilled) (SPLP)	0.28	mg/l	MRK	0.1	300.0	05/19/2007 04:27:00 AM
Hardness as CaCO3 (SPLP)	<4	mg/l	KC	4	2340B	05/04/2007 06:27:00 PM
pH (SPLP)	7.4	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	19.1	---	KC	0.1	20b	05/04/2007 06:27:00 PM
Total Dissolved Solids (SPLP)	182	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4*	mg/l	RM	4	160.2	05/02/2007 08:00:00 AM
Calcium as Ca (SPLP)	0.5	mg/l	KC	0.5	200.7	05/04/2007 06:27:00 PM
Magnesium as Mg (SPLP)	<0.5	mg/l	KC	0.5	200.7	05/04/2007 06:27:00 PM
Potassium as K (SPLP)	1.2	mg/l	KC	0.5	200.7	05/04/2007 06:27:00 PM
Sodium as Na (SPLP)	49	mg/l	KC	0.5	200.7	05/04/2007 06:27:00 PM
Aluminum as Al (SPLP)	0.62 J	mg/l	KC	0.05	200.7	05/04/2007 06:27:00 PM
Arsenic as As (SPLP)	0.018	mg/l	BH	0.001	200.8	05/09/2007 02:12:00 AM
Barium as Ba (SPLP)	0.22 J	mg/l	BH	0.005	200.8	05/09/2007 02:12:00 AM
Boron as B (SPLP)	0.3 J	mg/l	KC	0.1	200.7	05/04/2007 06:27:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	05/09/2007 02:12:00 AM
Chromium as Cr (SPLP)	0.003	mg/l	BH	0.001	200.8	05/09/2007 02:12:00 AM
Copper as Cu (SPLP)	0.004 J	mg/l	BH	0.001	200.8	05/09/2007 02:12:00 AM
Iron as Fe (SPLP)	0.56 J	mg/l	KC	0.01	200.7	05/04/2007 06:27:00 PM
Iron as Fe (Total, SPLP)	1.82	mg/l	BH	0.01	200.7	05/09/2007 09:39:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 02:12:00 AM
Manganese as Mn (SPLP)	0.010	mg/l	BH	0.005	200.8	05/09/2007 02:12:00 AM
Mercury as Hg (SPLP)	0.00002 J	mg/l	AH	0.00001	200.8	05/21/2007 04:31:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 06:27:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	05/09/2007 02:12:00 AM
Selenium as Se (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 02:12:00 AM
Uranium as U (SPLP)	<0.001	mg/l	AH	0.001	200.8	05/24/2007 02:07:00 PM
Vanadium as V (SPLP)	0.02	mg/l	BH	0.01	200.8	05/09/2007 02:12:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100095-16
Sample Name: SHMW05, 210-215
Sample Date/Time: 10/03/2006 09:54:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.13 J	mg/l	KC	0.01	200.7	05/04/2007 06:27:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/26/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100095-24
Sample Name: SHMW05, 244-250
Sample Date/Time: 10/03/2006 12:31:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	8	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	188	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	154	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/19/2007 05:28:00 AM
Electrical Conductivity (SPLP)	392	umhos/cm	CC	10	2510B	05/18/2007 05:58:00 PM
Fluoride (undistilled) (SPLP)	0.35	mg/l	MRK	0.1	300.0	05/19/2007 05:28:00 AM
Hardness as CaCO3 (SPLP)	6	mg/l	KC	4	2340B	05/04/2007 06:45:00 PM
pH (SPLP)	7.6	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	16.7	---	KC	0.1	20b	05/04/2007 06:45:00 PM
Total Dissolved Solids (SPLP)	277	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4*	mg/l	RM	4	160.2	05/02/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.3	mg/l	KC	0.5	200.7	05/04/2007 06:45:00 PM
Magnesium as Mg (SPLP)	0.6	mg/l	KC	0.5	200.7	05/04/2007 06:45:00 PM
Potassium as K (SPLP)	3.8	mg/l	KC	0.5	200.7	05/04/2007 06:45:00 PM
Sodium as Na (SPLP)	92	mg/l	KC	0.5	200.7	05/04/2007 06:45:00 PM
Aluminum as Al (SPLP)	1.13	mg/l	KC	0.05	200.7	05/04/2007 06:45:00 PM
Arsenic as As (SPLP)	0.003	mg/l	BH	0.001	200.8	05/09/2007 02:24:00 AM
Barium as Ba (SPLP)	0.17	mg/l	BH	0.005	200.8	05/09/2007 02:24:00 AM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/04/2007 06:45:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	05/09/2007 02:24:00 AM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 02:24:00 AM
Copper as Cu (SPLP)	0.004	mg/l	BH	0.001	200.8	05/09/2007 02:24:00 AM
Iron as Fe (SPLP)	0.94	mg/l	KC	0.01	200.7	05/04/2007 06:45:00 PM
Iron as Fe (Total, SPLP)	1.70	mg/l	BH	0.01	200.7	05/09/2007 09:46:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	05/09/2007 02:24:00 AM
Manganese as Mn (SPLP)	0.035	mg/l	BH	0.005	200.8	05/09/2007 02:24:00 AM
Mercury as Hg (SPLP)	0.00003 J	mg/l	AH	0.00001	200.8	05/21/2007 04:40:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 06:45:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/09/2007 02:24:00 AM
Selenium as Se (SPLP)	0.010	mg/l	BH	0.001	200.8	05/09/2007 02:24:00 AM
Uranium as U (SPLP)	0.003	mg/l	AH	0.001	200.8	05/24/2007 02:11:00 PM
Vanadium as V (SPLP)	0.02	mg/l	BH	0.01	200.8	05/09/2007 02:24:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100095-24
Sample Name: SHMW05, 244-250
Sample Date/Time: 10/03/2006 12:31:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.05	mg/l	KC	0.01	200.7	05/04/2007 06:45:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/26/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Project Name: SOUTH HEART POWER

Project No.: 063-2174

Laboratory No.: 2000100063-33

Sample Name: SHMW06, 5-8

Sample Date/Time: 09/27/2006 07:40:

Collected by: ELLIOTT & WITT

Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<5	mg/l	ES	5	305.2	05/04/2007 08:00:00 AM
Alkalinity Bicarb. as HCO ₃ (SPLP)	48	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO ₃ (SPLP)	0	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO ₃ (SPLP)	39	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/20/2007 03:34:00 PM
Electrical Conductivity (SPLP)	939	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.60	mg/l	MRK	0.1	300.0	05/20/2007 03:34:00 PM
Hardness as CaCO ₃ (SPLP)	450	mg/l	KC	4	2340B	05/04/2007 02:54:00 PM
pH (SPLP)	7.6	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:00:00 PM
Sodium Absorption Ratio (SPLP)	0.68	—	KC	0.1	20b	05/04/2007 02:54:00 PM
Total Dissolved Solids (SPLP)	705	mg/l	RM	20	160.1	04/30/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/30/2007 08:00:00 AM
Calcium as Ca (SPLP)	117	mg/l	KC	0.5	200.7	05/04/2007 02:54:00 PM
Magnesium as Mg (SPLP)	38	mg/l	KC	0.5	200.7	05/04/2007 02:54:00 PM
Potassium as K (SPLP)	3.6	mg/l	KC	0.5	200.7	05/04/2007 02:54:00 PM
Sodium as Na (SPLP)	33	mg/l	KC	0.5	200.7	05/04/2007 02:54:00 PM
Aluminum as Al (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 02:54:00 PM
Arsenic as As (SPLP)	0.001	mg/l	BH	0.001	200.8	05/08/2007 09:19:00 PM
Barium as Ba (SPLP)	0.32	mg/l	BH	0.005	200.8	05/08/2007 09:19:00 PM
Boron as B (SPLP)	0.2 B	mg/l	KC	0.1	200.7	05/04/2007 02:54:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	05/08/2007 09:19:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 09:19:00 PM
Copper as Cu (SPLP)	0.003	mg/l	BH	0.001	200.8	05/08/2007 09:19:00 PM
Iron as Fe (SPLP)	<0.01	mg/l	KC	0.01	200.7	05/04/2007 02:54:00 PM
Iron as Fe (Total, SPLP)	0.02 B	mg/l	BH	0.01	200.7	05/09/2007 07:44:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 09:19:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	05/08/2007 09:19:00 PM
Mercury as Hg (SPLP)	0.00002	mg/l	BH	0.00001	200.8	05/09/2007 10:15:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 02:54:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	05/08/2007 09:19:00 PM
Selenium as Se (SPLP)	0.002	mg/l	BH	0.001	200.8	05/08/2007 09:19:00 PM
Uranium as U (SPLP)	0.006	mg/l	AH	0.001	200.8	05/24/2007 12:59:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 09:19:00 PM

Client: GOLDER ASSOCIATES, INC.

Project Name: SOUTH HEART POWER

Project No.: 063-2174

Laboratory No.: 2000100063-33

Sample Name: SHMW06, 5-8

Sample Date/Time: 09/27/2006 07:40:

Collected by: ELLIOTT & WITT

Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.05 B	mg/l	KC	0.01	200.7	05/04/2007 02:54:00 PM
SPLP Extraction Date	6700	---	LL	---	1312	04/24/2007 04:35:00 PM
SPLP ICP/AA Batch #/Digest Date	1823	---	KC	---	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Project Name: SOUTH HEART POWER

Project No.: 063-2174

Laboratory No.: 2000100063-1

Sample Name: SHMW06, 21.5-25

Sample Date/Time: 09/27/2006 08:35:

Collected by: ELLIOTT & WITT

Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	NA	---	---	---	---	---
Alkalinity Bicarb. as HCO ₃ (SPLP)	NA	---	---	---	---	---
Alkalinity Carbonate as CO ₃ (SPLP)	NA	---	---	---	---	---
Alkalinity Total as CaCO ₃ (SPLP)	NA	---	---	---	---	---
Chloride as Cl (SPLP)	NA	---	---	---	---	---
Electrical Conductivity (SPLP)	NA	---	---	---	---	---
Fluoride (undistilled) (SPLP)	NA	---	---	---	---	---
Hardness as CaCO ₃ (SPLP)	46	mg/l	KC	4	2340B	05/04/2007 04:40:00 PM
pH (SPLP)	NA	---	---	---	---	---
Sodium Absorption Ratio (SPLP)	0.35	---	KC	0.1	20b	05/04/2007 04:40:00 PM
Total Dissolved Solids (SPLP)	94	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	05/02/2007 08:00:00 AM
Calcium as Ca (SPLP)	12	mg/l	KC	0.5	200.7	05/04/2007 04:40:00 PM
Magnesium as Mg (SPLP)	3.8	mg/l	KC	0.5	200.7	05/04/2007 04:40:00 PM
Potassium as K (SPLP)	0.9	mg/l	KC	0.5	200.7	05/04/2007 04:40:00 PM
Sodium as Na (SPLP)	5.4	mg/l	KC	0.5	200.7	05/04/2007 04:40:00 PM
Aluminum as Al (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 04:40:00 PM
Arsenic as As (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 11:56:00 PM
Barium as Ba (SPLP)	0.14	mg/l	BH	0.005	200.8	05/08/2007 11:56:00 PM
Boron as B (SPLP)	<0.1	mg/l	KC	0.1	200.7	05/04/2007 04:40:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	05/08/2007 11:56:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 11:36:00 PM
Copper as Cu (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 11:56:00 PM
Iron as Fe (SPLP)	0.01	mg/l	KC	0.01	200.7	05/04/2007 04:40:00 PM
Iron as Fe (Total, SPLP)	0.05 JB	mg/l	BH	0.01	200.7	05/09/2007 08:17:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 11:56:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	05/08/2007 11:56:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	AH	0.00001	200.8	05/21/2007 05:12:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 04:40:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 11:56:00 PM
Selenium as Se (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 11:56:00 PM
Uranium as U (SPLP)	<0.001	mg/l	AH	0.001	200.8	05/24/2007 04:35:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 11:56:00 PM

Client: GOLDER ASSOCIATES, INC.

Project Name: SOUTH HEART POWER

Project No.: 063-2174

Laboratory No.: 2000100063-1

Sample Name: SHMW06, 21.5-25

Sample Date/Time: 09/27/2006 08:35:

Collected by: ELLIOTT & WITT

Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.07	mg/l	KC	0.01	200.7	05/04/2007 04:40:00 PM
SPLP Extraction Date	6706	----	LL	----	1312	04/26/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	----	KC	----	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Project Name: SOUTH HEART POWER

Project No.: 063-2174

Laboratory No.: 2000100063-7

Sample Name: SHMW06, 46.5-51.5

Sample Date/Time: 09/27/2006 11:45:

Collected by: ELLIOTT & WITT

Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	13	mg/l	ES	5	305.2	05/04/2007 08:00:00 AM
Alkalinity Bicarb. as HCO ₃ (SPLP)	5 B	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO ₃ (SPLP)	0	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO ₃ (SPLP)	4 B	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/20/2007 02:33:00 PM
Electrical Conductivity (SPLP)	1000	umhos/cm	CC	10	2510B	05/24/2007 07:40:00 PM
Fluoride (undistilled) (SPLP)	0.20	mg/l	MRK	0.1	300.0	05/20/2007 02:33:00 PM
Hardness as CaCO ₃ (SPLP)	460	mg/l	KC	4	2340B	05/04/2007 02:43:00 PM
pH (SPLP)	5.6	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:20:00 PM
Sodium Absorption Ratio (SPLP)	0.85	---	KC	0.1	20b	05/04/2007 02:43:00 PM
Total Dissolved Solids (SPLP)	756	mg/l	RM	20	160.1	04/30/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/30/2007 08:00:00 AM
Calcium as Ca (SPLP)	109	mg/l	KC	0.5	200.7	05/04/2007 02:43:00 PM
Magnesium as Mg (SPLP)	45	mg/l	KC	0.5	200.7	05/04/2007 02:43:00 PM
Potassium as K (SPLP)	2.2	mg/l	KC	0.5	200.7	05/04/2007 02:43:00 PM
Sodium as Na (SPLP)	42	mg/l	KC	0.5	200.7	05/04/2007 02:43:00 PM
Aluminum as Al (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 02:43:00 PM
Arsenic as As (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 08:47:00 PM
Barium as Ba (SPLP)	0.15 J	mg/l	BH	0.005	200.8	05/08/2007 08:47:00 PM
Boron as B (SPLP)	0.1 B	mg/l	KC	0.1	200.7	05/04/2007 02:43:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	05/08/2007 08:47:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 08:47:00 PM
Copper as Cu (SPLP)	0.002	mg/l	BH	0.001	200.8	05/08/2007 08:47:00 PM
Iron as Fe (SPLP)	<0.01	mg/l	KC	0.01	200.7	05/04/2007 02:43:00 PM
Iron as Fe (Total, SPLP)	0.03 B	mg/l	BH	0.01	200.7	05/09/2007 07:25:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 08:47:00 PM
Manganese as Mn (SPLP)	0.065	mg/l	BH	0.005	200.8	05/08/2007 08:47:00 PM
Mercury as Hg (SPLP)	0.00003	mg/l	BH	0.00001	200.8	05/09/2007 10:01:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 02:43:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	05/08/2007 08:47:00 PM
Selenium as Se (SPLP)	0.002	mg/l	BH	0.001	200.8	05/08/2007 08:47:00 PM
Uranium as U (SPLP)	<0.001	mg/l	AH	0.001	200.8	05/24/2007 12:53:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 08:47:00 PM

Client: GOLDER ASSOCIATES, INC.

Project Name: SOUTH HEART POWER

Project No.: 063-2174

Laboratory No.: 2000100063-7

Sample Name: SHMW06, 46.5-51.5

Sample Date/Time: 09/27/2006 11:45:

Collected by: ELLIOTT & WITT

Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.09 JB	mg/l	KC	0.01	200.7	05/04/2007 02:43:00 PM
SPLP Extraction Date	6700	---	LL	---	1312	04/24/2007 04:35:00 PM
SPLP ICP/AA Batch #/Digest Date	1823	---	KC	---	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER
Project No.: 063-2174
Laboratory No.: 2000100063-10
Sample Name: SHMW06, 78-83
Sample Date/Time: 09/27/2006 17:15:
Collected by: ELLIOTT & WITT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/04/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	74	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	61	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/20/2007 03:03:00 PM
Electrical Conductivity (SPLP)	196	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.50	mg/l	MRK	0.1	300.0	05/20/2007 03:03:00 PM
Hardness as CaCO3 (SPLP)	<4	mg/l	KC	4	2340B	05/04/2007 02:50:00 PM
pH (SPLP)	7.3	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:00:00 PM
Sodium Absorption Ratio (SPLP)	16.0	---	KC	0.1	20b	05/04/2007 02:50:00 PM
Total Dissolved Solids (SPLP)	259	mg/l	RM	20	160.1	04/30/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/30/2007 08:00:00 AM
Calcium as Ca (SPLP)	0.5	mg/l	KC	0.5	200.7	05/04/2007 02:50:00 PM
Magnesium as Mg (SPLP)	<0.5	mg/l	KC	0.5	200.7	05/04/2007 02:50:00 PM
Potassium as K (SPLP)	1.2	mg/l	KC	0.5	200.7	05/04/2007 02:50:00 PM
Sodium as Na (SPLP)	41	mg/l	KC	0.5	200.7	05/04/2007 02:50:00 PM
Aluminum as Al (SPLP)	0.19	mg/l	KC	0.05	200.7	05/04/2007 02:50:00 PM
Arsenic as As (SPLP)	0.025	mg/l	BH	0.001	200.8	05/08/2007 09:13:00 PM
Barium as Ba (SPLP)	0.084	mg/l	BH	0.005	200.8	05/08/2007 09:13:00 PM
Boron as B (SPLP)	<0.1	mg/l	KC	0.1	200.7	05/04/2007 02:50:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	05/08/2007 09:13:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	05/08/2007 09:13:00 PM
Copper as Cu (SPLP)	0.006	mg/l	BH	0.001	200.8	05/08/2007 09:13:00 PM
Iron as Fe (SPLP)	0.13	mg/l	KC	0.01	200.7	05/04/2007 02:50:00 PM
Iron as Fe (Total, SPLP)	0.55	mg/l	BH	0.01	200.7	05/09/2007 07:33:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	05/08/2007 09:13:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	05/08/2007 09:13:00 PM
Mercury as Hg (SPLP)	0.00004	mg/l	BH	0.00001	200.8	05/09/2007 10:10:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 02:50:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 09:13:00 PM
Selenium as Se (SPLP)	0.014	mg/l	BH	0.001	200.8	05/08/2007 09:13:00 PM
Uranium as U (SPLP)	0.001	mg/l	AH	0.001	200.8	05/24/2007 12:57:00 PM
Vanadium as V (SPLP)	0.02	mg/l	BH	0.01	200.8	05/08/2007 09:13:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER
Project No.: 063-2174
Laboratory No.: 2000100063-10
Sample Name: SHMW06, 78-83
Sample Date/Time: 09/27/2006 17:15:
Collected by: ELLIOTT & WITT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.02 B	mg/l	KC	0.01	200.7	05/04/2007 02:50:00 PM
SPLP Extraction Date	6700	---	LL	---	1312	04/24/2007 04:35:00 PM
SPLP ICP/AA Batch #/Digest Date	1823	---	KC	---	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch #/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch #/Digest Date	NA	---	---	---	---	---

Project Name: SOUTH HEART POWER

Project No.: 063-2174

Laboratory No.: 2000100063-39

Sample Name: SHMW06, 167-172

Sample Date/Time: 09/28/2006 14:26:

Collected by: ELLIOTT & WITT

Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<5	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO ₃ (SPLP)	136	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO ₃ (SPLP)	0	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO ₃ (SPLP)	111	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/20/2007 11:40:00 PM
Electrical Conductivity (SPLP)	374	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.32	mg/l	MRK	0.1	300.0	05/20/2007 11:40:00 PM
Hardness as CaCO ₃ (SPLP)	<4	mg/l	KC	4	2340B	05/04/2007 05:09:00 PM
pH (SPLP)	7.5	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	22.6	---	KC	0.1	20b	05/04/2007 05:09:00 PM
Total Dissolved Solids (SPLP)	267	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4*	mg/l	RM	4	160.2	05/02/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.0	mg/l	KC	0.5	200.7	05/04/2007 05:09:00 PM
Magnesium as Mg (SPLP)	<0.5	mg/l	KC	0.5	200.7	05/04/2007 05:09:00 PM
Potassium as K (SPLP)	2.5	mg/l	KC	0.5	200.7	05/04/2007 05:09:00 PM
Sodium as Na (SPLP)	82	mg/l	KC	0.5	200.7	05/04/2007 05:09:00 PM
Aluminum as Al (SPLP)	0.39	mg/l	KC	0.05	200.7	05/04/2007 05:09:00 PM
Arsenic as As (SPLP)	0.044	mg/l	BH	0.001	200.8	05/09/2007 12:26:00 AM
Barium as Ba (SPLP)	0.15	mg/l	BH	0.005	200.8	05/09/2007 12:26:00 AM
Boron as B (SPLP)	0.5	mg/l	KC	0.1	200.7	05/04/2007 05:09:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	05/09/2007 12:26:00 AM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 12:26:00 AM
Copper as Cu (SPLP)	0.005	mg/l	BH	0.001	200.8	05/09/2007 12:26:00 AM
Iron as Fe (SPLP)	0.23	mg/l	KC	0.01	200.7	05/04/2007 05:09:00 PM
Iron as Fe (Total, SPLP)	0.61 B	mg/l	BH	0.01	200.7	05/09/2007 08:43:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	05/09/2007 12:26:00 AM
Manganese as Mn (SPLP)	0.005	mg/l	BH	0.005	200.8	05/09/2007 12:26:00 AM
Mercury as Hg (SPLP)	0.00007	mg/l	AH	0.00001	200.8	05/21/2007 03:17:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 05:09:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/09/2007 12:26:00 AM
Selenium as Se (SPLP)	0.019	mg/l	BH	0.001	200.8	05/09/2007 12:26:00 AM
Uranium as U (SPLP)	0.003	mg/l	AH	0.001	200.8	05/24/2007 01:26:00 PM
Vanadium as V (SPLP)	0.11	mg/l	BH	0.01	200.8	05/09/2007 12:26:00 AM

Client: GOLDER ASSOCIATES, INC.

Project Name: SOUTH HEART POWER

Project No.: 063-2174

Laboratory No.: 2000100063-39

Sample Name: SHMW06, 167-172

Sample Date/Time: 09/28/2006 14:26:

Collected by: ELLIOTT & WITT

Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.05	mg/l	KC	0.01	200.7	05/04/2007 05:09:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/24/2007 04:35:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Project Name: SOUTH HEART POWER

Project No.: 063-2174

Laboratory No.: 2000100063-21

Sample Name: SHMW06, 200-205

Sample Date/Time: 09/29/2006 08:48:

Collected by: ELLIOTT & WITT

Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	NA	---	---	---	---	---
Alkalinity Bicarb. as HCO ₃ (SPLP)	NA	---	---	---	---	---
Alkalinity Carbonate as CO ₃ (SPLP)	NA	---	---	---	---	---
Alkalinity Total as CaCO ₃ (SPLP)	NA	---	---	---	---	---
Chloride as Cl (SPLP)	NA	---	---	---	---	---
Electrical Conductivity (SPLP)	NA	---	---	---	---	---
Fluoride (undistilled) (SPLP)	NA	---	---	---	---	---
Hardness as CaCO ₃ (SPLP)	<4	mg/l	KC	4	2340B	05/04/2007 04:47:00 PM
pH (SPLP)	NA	---	---	---	---	---
Sodium Absorption Ratio (SPLP)	23.1	---	KC	0.1	20b	05/04/2007 04:47:00 PM
Total Dissolved Solids (SPLP)	270	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4*	mg/l	RM	4	160.2	05/02/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.1	mg/l	KC	0.5	200.7	05/04/2007 04:47:00 PM
Magnesium as Mg (SPLP)	<0.5	mg/l	KC	0.5	200.7	05/04/2007 04:47:00 PM
Potassium as K (SPLP)	2.0	mg/l	KC	0.5	200.7	05/04/2007 04:47:00 PM
Sodium as Na (SPLP)	88	mg/l	KC	0.5	200.7	05/04/2007 04:47:00 PM
Aluminum as Al (SPLP)	0.28	mg/l	KC	0.05	200.7	05/04/2007 04:47:00 PM
Arsenic as As (SPLP)	0.019	mg/l	BH	0.001	200.8	05/09/2007 12:08:00 AM
Barium as Ba (SPLP)	0.12	mg/l	BH	0.005	200.8	05/09/2007 12:08:00 AM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/04/2007 04:47:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	05/09/2007 12:08:00 AM
Chromium as Cr (SPLP)	0.003	mg/l	BH	0.001	200.8	05/09/2007 12:08:00 AM
Copper as Cu (SPLP)	0.007	mg/l	BH	0.001	200.8	05/09/2007 12:08:00 AM
Iron as Fe (SPLP)	0.29	mg/l	KC	0.01	200.7	05/04/2007 04:47:00 PM
Iron as Fe (Total, SPLP)	0.64 B	mg/l	BH	0.01	200.7	05/09/2007 08:32:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	05/09/2007 12:08:00 AM
Manganese as Mn (SPLP)	0.013	mg/l	BH	0.005	200.8	05/09/2007 12:08:00 AM
Mercury as Hg (SPLP)	0.00005	mg/l	AH	0.00001	200.8	05/21/2007 03:03:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 04:47:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/09/2007 12:08:00 AM
Selenium as Se (SPLP)	0.011	mg/l	BH	0.001	200.8	05/09/2007 12:08:00 AM
Uranium as U (SPLP)	0.004	mg/l	AH	0.001	200.8	05/24/2007 01:20:00 PM
Vanadium as V (SPLP)	0.05	mg/l	BH	0.01	200.8	05/09/2007 12:08:00 AM

Client: GOLDER ASSOCIATES, INC.

Project Name: SOUTH HEART POWER

Project No.: 063-2174

Laboratory No.: 2000100063-21

Sample Name: SHMW06, 200-205

Sample Date/Time: 09/29/2006 08:48:

Collected by: ELLIOTT & WITT

Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.10	mg/l	KC	0.01	200.7	05/04/2007 04:47:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/25/2007 04:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Project Name: SOUTH HEART POWER

Project No.: 063-2174

Laboratory No.: 2000100063-24

Sample Name: SHMW06, 216-221

Sample Date/Time: 09/29/2006 09:30:

Collected by: ELLIOTT & WITT

Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	18	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	90	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	73	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	2 HT	mg/l	MRK	1	300.0	06/04/2007 10:49:00 AM
Electrical Conductivity (SPLP)	334	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.96 HT	mg/l	MRK	0.1	300.0	06/04/2007 10:49:00 AM
Hardness as CaCO3 (SPLP)	7	mg/l	KC	4	2340B	05/04/2007 04:51:00 PM
pH (SPLP)	6.9	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	11.8	---	KC	0.1	20b	05/04/2007 04:51:00 PM
Total Dissolved Solids (SPLP)	397	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	6 HT	mg/l	RM	4	160.2	05/07/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.5	mg/l	KC	0.5	200.7	05/04/2007 04:51:00 PM
Magnesium as Mg (SPLP)	0.8	mg/l	KC	0.5	200.7	05/04/2007 04:51:00 PM
Potassium as K (SPLP)	1.7	mg/l	KC	0.5	200.7	05/04/2007 04:51:00 PM
Sodium as Na (SPLP)	72	mg/l	KC	0.5	200.7	05/04/2007 04:51:00 PM
Aluminum as Al (SPLP)	0.40	mg/l	KC	0.05	200.7	05/04/2007 04:51:00 PM
Arsenic as As (SPLP)	0.050	mg/l	BH	0.001	200.8	05/09/2007 12:14:00 AM
Barium as Ba (SPLP)	0.21	mg/l	BH	0.005	200.8	05/09/2007 12:14:00 AM
Boron as B (SPLP)	0.6	mg/l	KC	0.1	200.7	05/04/2007 04:51:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	05/09/2007 12:14:00 AM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 12:14:00 AM
Copper as Cu (SPLP)	0.018	mg/l	BH	0.001	200.8	05/09/2007 12:14:00 AM
Iron as Fe (SPLP)	0.63	mg/l	KC	0.01	200.7	05/04/2007 04:51:00 PM
Iron as Fe (Total, SPLP)	3.38	mg/l	BH	0.01	200.7	05/09/2007 08:36:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 12:14:00 AM
Manganese as Mn (SPLP)	0.030	mg/l	BH	0.005	200.8	05/09/2007 12:14:00 AM
Mercury as Hg (SPLP)	<0.00001	mg/l	AH	0.00001	200.8	05/21/2007 03:07:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 04:51:00 PM
Nickel as Ni (SPLP)	0.03	mg/l	BH	0.01	200.8	05/09/2007 12:14:00 AM
Selenium as Se (SPLP)	0.016	mg/l	BH	0.001	200.8	05/09/2007 12:14:00 AM
Uranium as U (SPLP)	0.001	mg/l	AH	0.001	200.8	05/24/2007 01:22:00 PM
Vanadium as V (SPLP)	0.26	mg/l	BH	0.01	200.8	05/09/2007 12:14:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER
Project No.: 063-2174
Laboratory No.: 2000100063-24
Sample Name: SHMW06, 216-221
Sample Date/Time: 09/29/2006 09:30:
Collected by: ELLIOTT & WITT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.18	mg/l	KC	0.01	200.7	05/04/2007 04:51:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/25/2007 04:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100064-3
Sample Name: SHMW-10D @ 10-15'
Sample Date/Time: 09/29/2006 11:20:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	60	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	9	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	65	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/20/2007 04:04:00 PM
Electrical Conductivity (SPLP)	507	umhos/cm	CC	10	2510B	05/18/2007 05:58:00 PM
Fluoride (undistilled) (SPLP)	0.47	mg/l	MRK	0.1	300.0	05/20/2007 04:04:00 PM
Hardness as CaCO3 (SPLP)	19	mg/l	KC	4	2340B	05/04/2007 05:13:00 PM
pH (SPLP)	9.5	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	9.65	---	KC	0.1	20b	05/04/2007 05:13:00 PM
Total Dissolved Solids (SPLP)	568	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4*	mg/l	RM	4	160.2	05/02/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.4	mg/l	KC	0.5	200.7	05/04/2007 05:13:00 PM
Magnesium as Mg (SPLP)	3.7	mg/l	KC	0.5	200.7	05/04/2007 05:13:00 PM
Potassium as K (SPLP)	2.0	mg/l	KC	0.5	200.7	05/04/2007 05:13:00 PM
Sodium as Na (SPLP)	96	mg/l	KC	0.5	200.7	05/04/2007 05:13:00 PM
Aluminum as Al (SPLP)	12.2	mg/l	KC	0.05	200.7	05/04/2007 05:13:00 PM
Arsenic as As (SPLP)	0.004	mg/l	BH	0.001	200.8	05/09/2007 12:46:00 AM
Barium as Ba (SPLP)	0.42	mg/l	BH	0.005	200.8	05/09/2007 12:46:00 AM
Boron as B (SPLP)	0.1	mg/l	KC	0.1	200.7	05/04/2007 05:13:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	05/09/2007 12:46:00 AM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 12:46:00 AM
Copper as Cu (SPLP)	0.005	mg/l	BH	0.001	200.8	05/09/2007 12:46:00 AM
Iron as Fe (SPLP)	5.03	mg/l	KC	0.01	200.7	05/04/2007 05:13:00 PM
Iron as Fe (Total, SPLP)	5.57	mg/l	BH	0.01	200.7	05/09/2007 08:47:00 PM
Lead as Pb (SPLP)	0.003	mg/l	BH	0.001	200.8	05/09/2007 12:46:00 AM
Manganese as Mn (SPLP)	0.026	mg/l	BH	0.005	200.8	05/09/2007 12:46:00 AM
Mercury as Hg (SPLP)	<0.00001	mg/l	AH	0.00001	200.8	05/21/2007 03:21:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 05:13:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/09/2007 12:46:00 AM
Selenium as Se (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 12:46:00 AM
Uranium as U (SPLP)	0.001	mg/l	AH	0.001	200.8	05/24/2007 01:28:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/09/2007 12:46:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100064-3
Sample Name: SHMW-10D @ 10-15'
Sample Date/Time: 09/29/2006 11:20:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.08	mg/l	KC	0.01	200.7	05/04/2007 05:13:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/25/2007 04:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100064-6
Sample Name: SHMW-10D @ 25-30'
Sample Date/Time: 09/29/2006 12:48:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	6 J	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	5 J	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/20/2007 05:35:00 PM
Electrical Conductivity (SPLP)	291	umhos/cm	CC	10	2510B	05/18/2007 05:58:00 PM
Fluoride (undistilled) (SPLP)	0.45	mg/l	MRK	0.1	300.0	05/20/2007 05:35:00 PM
Hardness as CaCO3 (SPLP)	19	mg/l	KC	4	2340B	05/04/2007 05:16:00 PM
pH (SPLP)	6.2	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	5.50	—	KC	0.1	20b	05/04/2007 05:16:00 PM
Total Dissolved Solids (SPLP)	768	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	7 HT	mg/l	RM	4	160.2	05/02/2007 08:00:00 AM
Calcium as Ca (SPLP)	3.3	mg/l	KC	0.5	200.7	05/04/2007 05:16:00 PM
Magnesium as Mg (SPLP)	2.6	mg/l	KC	0.5	200.7	05/04/2007 05:16:00 PM
Potassium as K (SPLP)	1.8	mg/l	KC	0.5	200.7	05/04/2007 05:16:00 PM
Sodium as Na (SPLP)	55	mg/l	KC	0.5	200.7	05/04/2007 05:16:00 PM
Aluminum as Al (SPLP)	2.12	mg/l	KC	0.05	200.7	05/04/2007 05:16:00 PM
Arsenic as As (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 12:52:00 AM
Barium as Ba (SPLP)	0.31 J	mg/l	BH	0.005	200.8	05/09/2007 12:52:00 AM
Boron as B (SPLP)	0.3	mg/l	KC	0.1	200.7	05/04/2007 05:16:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	05/09/2007 12:52:00 AM
Chromium as Cr (SPLP)	0.006	mg/l	BH	0.001	200.8	05/09/2007 12:52:00 AM
Copper as Cu (SPLP)	0.004	mg/l	BH	0.001	200.8	05/09/2007 12:52:00 AM
Iron as Fe (SPLP)	1.33	mg/l	KC	0.01	200.7	05/04/2007 05:16:00 PM
Iron as Fe (Total, SPLP)	20.8	mg/l	BH	0.01	200.7	05/09/2007 08:51:00 PM
Lead as Pb (SPLP)	0.005	mg/l	BH	0.001	200.8	05/09/2007 12:52:00 AM
Manganese as Mn (SPLP)	0.095	mg/l	BH	0.005	200.8	05/09/2007 12:52:00 AM
Mercury as Hg (SPLP)	<0.00001	mg/l	AH	0.00001	200.8	05/21/2007 05:17:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 05:16:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	05/09/2007 12:52:00 AM
Selenium as Se (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/09/2007 12:52:00 AM
Uranium as U (SPLP)	0.002 J	mg/l	AH	0.001	200.8	05/24/2007 01:30:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/09/2007 12:52:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100064-6
Sample Name: SHMW-10D @ 25-30'
Sample Date/Time: 09/29/2006 12:48:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.29 J	mg/l	KC	0.01	200.7	05/04/2007 05:16:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/25/2007 04:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100064-12
Sample Name: SHMW-10D @ 75-80'
Sample Date/Time: 09/29/2006 16:45:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	136	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	111	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/20/2007 06:36:00 PM
Electrical Conductivity (SPLP)	287	umhos/cm	CC	10	2510B	05/18/2007 05:58:00 PM
Fluoride (undistilled) (SPLP)	0.43	mg/l	MRK	0.1	300.0	05/20/2007 06:36:00 PM
Hardness as CaCO3 (SPLP)	<4	mg/l	KC	4	2340B	05/04/2007 05:24:00 PM
pH (SPLP)	8.0	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	24.9	---	KC	0.1	20b	05/04/2007 05:24:00 PM
Total Dissolved Solids (SPLP)	258	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4*	mg/l	RM	4	160.2	05/02/2007 08:00:00 AM
Calcium as Ca (SPLP)	0.6	mg/l	KC	0.5	200.7	05/04/2007 05:24:00 PM
Magnesium as Mg (SPLP)	<0.5	mg/l	KC	0.5	200.7	05/04/2007 05:24:00 PM
Potassium as K (SPLP)	2.1	mg/l	KC	0.5	200.7	05/04/2007 05:24:00 PM
Sodium as Na (SPLP)	70	mg/l	KC	0.5	200.7	05/04/2007 05:24:00 PM
Aluminum as Al (SPLP)	0.57	mg/l	KC	0.05	200.7	05/04/2007 05:24:00 PM
Arsenic as As (SPLP)	0.029	mg/l	BH	0.001	200.8	05/09/2007 01:04:00 AM
Barium as Ba (SPLP)	0.36	mg/l	BH	0.005	200.8	05/09/2007 01:04:00 AM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/04/2007 05:24:00 PM
Cadmium as Cd (SPLP)	0.0003	mg/l	BH	0.0001	200.8	05/09/2007 01:04:00 AM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 01:04:00 AM
Copper as Cu (SPLP)	0.013	mg/l	BH	0.001	200.8	05/09/2007 01:04:00 AM
Iron as Fe (SPLP)	0.49	mg/l	KC	0.01	200.7	05/04/2007 05:24:00 PM
Iron as Fe (Total, SPLP)	1.53	mg/l	BH	0.01	200.7	05/09/2007 08:58:00 PM
Lead as Pb (SPLP)	0.003	mg/l	BH	0.001	200.8	05/09/2007 01:04:00 AM
Manganese as Mn (SPLP)	0.022	mg/l	BH	0.005	200.8	05/09/2007 01:04:00 AM
Mercury as Hg (SPLP)	0.00006	mg/l	AH	0.00001	200.8	05/21/2007 03:36:00 PM
Molybdenum as Mo (SPLP)	0.10	mg/l	KC	0.05	200.7	05/04/2007 05:24:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	05/09/2007 01:04:00 AM
Selenium as Se (SPLP)	0.024	mg/l	BH	0.001	200.8	05/09/2007 01:04:00 AM
Uranium as U (SPLP)	0.003	mg/l	AH	0.001	200.8	05/24/2007 01:34:00 PM
Vanadium as V (SPLP)	0.05	mg/l	BH	0.01	200.8	05/09/2007 01:04:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100064-12
Sample Name: SHMW-10D @ 75-80'
Sample Date/Time: 09/29/2006 16:45:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.04	mg/l	KC	0.01	200.7	05/04/2007 05:24:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/25/2007 04:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100064-18
Sample Name: SHMW-10D @ 92-95'
Sample Date/Time: 09/29/2006 08:10:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	154	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	127	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/20/2007 05:06:00 PM
Electrical Conductivity (SPLP)	419	umhos/cm	CC	10	2510B	05/18/2007 05:58:00 PM
Fluoride (undistilled) (SPLP)	0.44	mg/l	MRK	0.1	300.0	05/20/2007 05:06:00 PM
Hardness as CaCO3 (SPLP)	7	mg/l	KC	4	2340B	05/04/2007 05:28:00 PM
pH (SPLP)	7.7	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	14.2	---	KC	0.1	20b	05/04/2007 05:28:00 PM
Total Dissolved Solids (SPLP)	366	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4*	mg/l	RM	4	160.2	05/02/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.4	mg/l	KC	0.5	200.7	05/04/2007 05:28:00 PM
Magnesium as Mg (SPLP)	0.8	mg/l	KC	0.5	200.7	05/04/2007 05:28:00 PM
Potassium as K (SPLP)	2.7	mg/l	KC	0.5	200.7	05/04/2007 05:28:00 PM
Sodium as Na (SPLP)	85	mg/l	KC	0.5	200.7	05/04/2007 05:28:00 PM
Aluminum as Al (SPLP)	1.52	mg/l	KC	0.05	200.7	05/04/2007 05:28:00 PM
Arsenic as As (SPLP)	0.004	mg/l	BH	0.001	200.8	05/09/2007 01:10:00 AM
Barium as Ba (SPLP)	0.34	mg/l	BH	0.005	200.8	05/09/2007 01:10:00 AM
Boron as B (SPLP)	0.1	mg/l	KC	0.1	200.7	05/04/2007 05:28:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	05/09/2007 01:10:00 AM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 01:10:00 AM
Copper as Cu (SPLP)	0.005	mg/l	BH	0.001	200.8	05/09/2007 01:10:00 AM
Iron as Fe (SPLP)	1.18	mg/l	KC	0.01	200.7	05/04/2007 05:28:00 PM
Iron as Fe (Total, SPLP)	3.27	mg/l	BH	0.01	200.7	05/09/2007 09:02:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	05/09/2007 01:10:00 AM
Manganese as Mn (SPLP)	0.041	mg/l	BH	0.005	200.8	05/09/2007 01:10:00 AM
Mercury as Hg (SPLP)	<0.00001	mg/l	AH	0.00001	200.8	05/21/2007 03:40:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 05:28:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/09/2007 01:10:00 AM
Selenium as Se (SPLP)	0.014	mg/l	BH	0.001	200.8	05/09/2007 01:10:00 AM
Uranium as U (SPLP)	0.006	mg/l	AH	0.001	200.8	05/24/2007 01:36:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/09/2007 01:10:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100064-18
Sample Name: SHMW-10D @ 92-95'
Sample Date/Time: 09/29/2006 08:10:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.06	mg/l	KC	0.01	200.7	05/04/2007 05:28:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/25/2007 04:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100064-23
Sample Name: SHMW-10D @ 123-130'
Sample Date/Time: 09/29/2006 09:50:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<5	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO ₃ (SPLP)	145	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO ₃ (SPLP)	0	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO ₃ (SPLP)	119	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/20/2007 07:37:00 PM
Electrical Conductivity (SPLP)	361	umhos/cm	CC	10	2510B	05/18/2007 05:58:00 PM
Fluoride (undistilled) (SPLP)	0.42	mg/l	MRK	0.1	300.0	05/20/2007 05:37:00 PM
Hardness as CaCO ₃ (SPLP)	5	mg/l	KC	4	2340B	05/04/2007 05:31:00 PM
pH (SPLP)	7.8	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	16.2	---	KC	0.1	20b	05/04/2007 05:31:00 PM
Total Dissolved Solids (SPLP)	272	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4*	mg/l	RM	4	160.2	05/02/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.0	mg/l	KC	0.5	200.7	05/04/2007 05:31:00 PM
Magnesium as Mg (SPLP)	0.6	mg/l	KC	0.5	200.7	05/04/2007 05:31:00 PM
Potassium as K (SPLP)	2.1	mg/l	KC	0.5	200.7	05/04/2007 05:31:00 PM
Sodium as Na (SPLP)	83	mg/l	KC	0.5	200.7	05/04/2007 05:31:00 PM
Aluminum as Al (SPLP)	1.20	mg/l	KC	0.05	200.7	05/04/2007 05:31:00 PM
Arsenic as As (SPLP)	0.027	mg/l	BH	0.001	200.8	05/09/2007 01:16:00 AM
Barium as Ba (SPLP)	0.14	mg/l	BH	0.005	200.8	05/09/2007 01:16:00 AM
Boron as B (SPLP)	0.3	mg/l	KC	0.1	200.7	05/04/2007 05:31:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	05/09/2007 01:16:00 AM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 01:16:00 AM
Copper as Cu (SPLP)	0.005	mg/l	BH	0.001	200.8	05/09/2007 01:16:00 AM
Iron as Fe (SPLP)	0.57	mg/l	KC	0.01	200.7	05/04/2007 05:31:00 PM
Iron as Fe (Total, SPLP)	0.80 B	mg/l	BH	0.01	200.7	05/09/2007 09:13:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/09/2007 01:16:00 AM
Manganese as Mn (SPLP)	0.010	mg/l	BH	0.005	200.8	05/09/2007 01:16:00 AM
Mercury as Hg (SPLP)	0.00004	mg/l	AH	0.00001	200.8	05/21/2007 03:56:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 05:31:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/09/2007 01:16:00 AM
Selenium as Se (SPLP)	0.009	mg/l	BH	0.001	200.8	05/09/2007 01:16:00 AM
Uranium as U (SPLP)	0.003	mg/l	AH	0.001	200.8	05/24/2007 01:42:00 PM
Vanadium as V (SPLP)	0.06	mg/l	BH	0.01	200.8	05/09/2007 01:16:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100064-23
Sample Name: SHMW-10D @ 123-130'
Sample Date/Time: 09/29/2006 09:50:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.04	mg/l	KC	0.01	200.7	05/04/2007 05:31:00 PM
SPLP Extraction Date	6706	----	LL	----	1312	04/25/2007 04:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	----	KC	----	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100064-24
Sample Name: SHMW-10D @ 130-135'
Sample Date/Time: 09/29/2006 11:20:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	170	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	139	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/20/2007 08:07:00 PM
Electrical Conductivity (SPLP)	380	umhos/cm	CC	10	2510B	05/18/2007 05:58:00 PM
Fluoride (undistilled) (SPLP)	0.41	mg/l	MRK	0.1	300.0	05/20/2007 08:07:00 PM
Hardness as CaCO3 (SPLP)	9	mg/l	KC	4	2340B	05/04/2007 07:35:00 AM
pH (SPLP)	7.6	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	12.3	—	KC	0.1	20b	05/04/2007 07:35:00 AM
Total Dissolved Solids (SPLP)	403	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4*	mg/l	RM	4	160.2	05/02/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.8	mg/l	KC	0.5	200.7	05/04/2007 05:35:00 PM
Magnesium as Mg (SPLP)	1.0	mg/l	KC	0.5	200.7	05/04/2007 05:35:00 PM
Potassium as K (SPLP)	2.7	mg/l	KC	0.5	200.7	05/04/2007 05:35:00 PM
Sodium as Na (SPLP)	83	mg/l	KC	0.5	200.7	05/04/2007 05:35:00 PM
Aluminum as Al (SPLP)	2.08	mg/l	KC	0.05	200.7	05/04/2007 05:35:00 PM
Arsenic as As (SPLP)	0.008	mg/l	BH	0.001	200.8	05/09/2007 01:22:00 AM
Barium as Ba (SPLP)	0.28	mg/l	BH	0.005	200.8	05/09/2007 01:22:00 AM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/04/2007 05:35:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	05/09/2007 01:22:00 AM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 01:22:00 AM
Copper as Cu (SPLP)	0.008	mg/l	BH	0.001	200.8	05/09/2007 01:22:00 AM
Iron as Fe (SPLP)	1.91	mg/l	KC	0.01	200.7	05/04/2007 05:35:00 PM
Iron as Fe (Total, SPLP)	5.25	mg/l	BH	0.01	200.7	05/09/2007 09:16:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	05/09/2007 01:22:00 AM
Manganese as Mn (SPLP)	0.056	mg/l	BH	0.005	200.8	05/09/2007 01:22:00 AM
Mercury as Hg (SPLP)	<0.00001	mg/l	AH	0.00001	200.8	05/21/2007 04:01:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 05:35:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/09/2007 01:22:00 AM
Selenium as Se (SPLP)	0.011	mg/l	BH	0.001	200.8	05/09/2007 01:22:00 AM
Uranium as U (SPLP)	0.004	mg/l	AH	0.001	200.8	05/24/2007 01:44:00 PM
Vanadium as V (SPLP)	0.02	mg/l	BH	0.01	200.8	05/09/2007 01:22:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100064-24
Sample Name: SHMW-10D @ 130-135'
Sample Date/Time: 09/29/2006 11:20:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.12	mg/l	KC	0.01	200.7	05/04/2007 05:35:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/25/2007 04:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch #/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch #/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100064-30
Sample Name: SHMW-10D @ 162-166'
Sample Date/Time: 09/29/2006 13:55:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/08/2007 04:40:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	148	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	121	mg/l	ES	1	2320B	05/08/2007 08:00:00 AM
Chloride as Cl (SPLP)	<3	mg/l	MRK	1	300.0	05/20/2007 08:38:00 PM
Electrical Conductivity (SPLP)	410	umhos/cm	CC	10	2510B	05/18/2007 05:58:00 PM
Fluoride (undistilled) (SPLP)	0.80	mg/l	MRK	0.1	300.0	05/20/2007 08:38:00 PM
Hardness as CaCO3 (SPLP)	15	mg/l	KC	4	2340B	05/04/2007 05:39:00 PM
pH (SPLP)	7.7	S.U.	ES	1.0-13.5	150.1	05/08/2007 10:00:00 AM
Sodium Absorption Ratio (SPLP)	9.77	---	KC	0.1	20b	05/04/2007 05:39:00 PM
Total Dissolved Solids (SPLP)	578	mg/l	RM	20	160.1	05/02/2007 08:00:00 AM
Total Suspended Solids (SPLP)	25 HT	mg/l	RM	4	160.2	05/07/2007 08:00:00 AM
Calcium as Ca (SPLP)	3.4	mg/l	KC	0.5	200.7	05/04/2007 05:39:00 PM
Magnesium as Mg (SPLP)	1.5	mg/l	KC	0.5	200.7	05/04/2007 05:39:00 PM
Potassium as K (SPLP)	3.3	mg/l	KC	0.5	200.7	05/04/2007 05:39:00 PM
Sodium as Na (SPLP)	86	mg/l	KC	0.5	200.7	05/04/2007 05:39:00 PM
Aluminum as Al (SPLP)	2.23	mg/l	KC	0.05	200.7	05/04/2007 05:39:00 PM
Arsenic as As (SPLP)	0.019	mg/l	BH	0.001	200.8	05/09/2007 01:28:00 AM
Barium as Ba (SPLP)	0.63	mg/l	BH	0.005	200.8	05/09/2007 01:28:00 AM
Boron as B (SPLP)	0.5	mg/l	KC	0.1	200.7	05/04/2007 05:39:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	05/09/2007 01:28:00 AM
Chromium as Cr (SPLP)	0.006	mg/l	BH	0.001	200.8	05/09/2007 01:28:00 AM
Copper as Cu (SPLP)	0.019	mg/l	BH	0.001	200.8	05/09/2007 01:28:00 AM
Iron as Fe (SPLP)	2.36	mg/l	KC	0.01	200.7	05/04/2007 05:39:00 PM
Iron as Fe (Total, SPLP)	7.59	mg/l	BH	0.01	200.7	05/09/2007 09:20:00 PM
Lead as Pb (SPLP)	0.005	mg/l	BH	0.001	200.8	05/09/2007 01:28:00 AM
Manganese as Mn (SPLP)	0.15	mg/l	BH	0.005	200.8	05/09/2007 01:28:00 AM
Mercury as Hg (SPLP)	0.00020	mg/l	AH	0.00001	200.8	05/21/2007 04:05:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 05:39:00 PM
Nickel as Ni (SPLP)	0.04	mg/l	BH	0.01	200.8	05/09/2007 01:28:00 AM
Selenium as Se (SPLP)	0.014	mg/l	BH	0.001	200.8	05/09/2007 01:28:00 AM
Uranium as U (SPLP)	0.002	mg/l	AH	0.001	200.8	05/24/2007 02:20:00 PM
Vanadium as V (SPLP)	0.08	mg/l	BH	0.01	200.8	05/09/2007 01:28:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100064-30
Sample Name: SHMW-10D @ 162-166'
Sample Date/Time: 09/29/2006 13:55:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.19	mg/l	KC	0.01	200.7	05/04/2007 05:39:00 PM
SPLP Extraction Date	6706	---	LL	---	1312	04/26/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1824	---	KC	---	200.7	05/03/2007 11:40:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100190-8
Sample Name: SHMW-12D @ 29-33'
Sample Date/Time: 10/12/2006 15:10:
Collected by: ANA VARGO
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/10/2007 08:08:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	139	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	114	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	04/09/2007 08:24:00 PM
Electrical Conductivity (SPLP)	490	umhos/cm	TD	10	2510B	04/09/2007 10:30:00 AM
Fluoride (undistilled) (SPLP)	0.73	mg/l	MRK	0.1	300.0	04/09/2007 08:24:00 PM
Hardness as CaCO3 (SPLP)	17	mg/l	BH	4	2340B	04/11/2007 01:28:00 PM
pH (SPLP)	7.4	S.U.	TD	1.0-13.5	150.1	04/09/2007 12:30:00 PM
Sodium Absorption Ratio (SPLP)	8.57	---	BH	0.1	20b	04/11/2007 01:28:00 PM
Total Dissolved Solids (SPLP)	375	mg/l	ES	20	160.1	04/09/2006 12:35:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/09/2007 12:35:00 PM
Calcium as Ca (SPLP)	4.3 B	mg/l	BH	0.5	200.7	04/11/2007 01:28:00 PM
Magnesium as Mg (SPLP)	1.6	mg/l	BH	0.5	200.7	04/11/2007 01:28:00 PM
Potassium as K (SPLP)	3.2	mg/l	BH	0.5	200.7	04/11/2007 01:28:00 PM
Sodium as Na (SPLP)	82	mg/l	BH	0.5	200.7	04/11/2007 01:28:00 PM
Aluminum as Al (SPLP)	1.36	mg/l	BH	0.05	200.7	05/15/2007 02:34:00 PM
Arsenic as As (SPLP)	0.010	mg/l	AH	0.001	200.8	04/10/2007 11:52:00 AM
Barium as Ba (SPLP)	0.22 B	mg/l	AH	0.005	200.8	04/10/2007 11:52:00 AM
Boron as B (SPLP)	0.4 B	mg/l	BH	0.1	200.7	04/10/2007 05:07:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	AH	0.0001	200.8	04/10/2007 11:52:00 AM
Chromium as Cr (SPLP)	0.002	mg/l	AH	0.001	200.8	04/10/2007 11:52:00 AM
Copper as Cu (SPLP)	0.008 B	mg/l	AH	0.001	200.8	04/10/2007 11:52:00 AM
Iron as Fe (SPLP)	1.64	mg/l	BH	0.01	200.7	05/15/2007 02:34:00 PM
Iron as Fe (Total, SPLP)	2.18	mg/l	BH	0.01	200.7	04/13/2007 03:18:00 PM
Lead as Pb (SPLP)	0.002	mg/l	AH	0.001	200.8	04/10/2007 11:52:00 AM
Manganese as Mn (SPLP)	0.074	mg/l	AH	0.005	200.8	04/10/2007 11:52:00 AM
Mercury as Hg (SPLP)	0.00002	mg/l	BH	0.00001	200.8	04/24/2007 08:17:39 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.8	04/10/2007 11:52:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	AH	0.01	200.8	04/10/2007 11:52:00 AM
Selenium as Se (SPLP)	0.009	mg/l	AH	0.001	200.8	04/10/2007 11:52:00 AM
Uranium as U (SPLP)	0.004	mg/l	AH	0.001	200.8	04/12/2007 10:22:00 AM
Vanadium as V (SPLP)	0.02	mg/l	AH	0.01	200.8	04/10/2007 11:52:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100190-8
Sample Name: SHMW-12D @ 29-33'
Sample Date/Time: 10/12/2006 15:10:
Collected by: ANA VARGO
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.19 B	mg/l	AH	0.01	200.8	04/10/2007 11:52:00 AM
SPLP Extraction Date	6677	---	LL	---	1312	04/04/2007 06:50:00 PM
SPLP ICP/AA Batch #/Digest Date	1770	---	GC	---	200.7	04/11/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100190-12
Sample Name: SHMW-12D @ 44-49'
Sample Date/Time: 10/12/2006 16:30:
Collected by: ANA VARGO
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<5	mg/l	ES	1	305.1	04/10/2007 08:08:00 AM
Alkalinity Bicarb. as HCO ₃ (SPLP)	107	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Carbonate as CO ₃ (SPLP)	0	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Total as CaCO ₃ (SPLP)	87	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	04/09/2007 05:52:00 PM
Electrical Conductivity (SPLP)	340	umhos/cm	TD	10	2510B	04/09/2007 10:30:00 AM
Fluoride (undistilled) (SPLP)	0.70	mg/l	MRK	0.1	300.0	04/09/2007 05:52:00 PM
Hardness as CaCO ₃ (SPLP)	13	mg/l	BH	4	2340B	04/11/2007 01:31:00 PM
pH (SPLP)	8.2	S.U.	TD	1.0-13.5	150.1	04/09/2007 12:30:00 PM
Sodium Absorption Ratio (SPLP)	7.29	—	BH	0.1	20b	04/11/2007 01:31:00 PM
Total Dissolved Solids (SPLP)	356	mg/l	ES	20	160.1	04/09/2006 12:35:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/09/2007 12:35:00 PM
Calcium as Ca (SPLP)	3.0 B	mg/l	BH	0.5	200.7	04/11/2007 01:31:00 PM
Magnesium as Mg (SPLP)	1.4	mg/l	BH	0.5	200.7	04/11/2007 01:31:00 PM
Potassium as K (SPLP)	3.2	mg/l	BH	0.5	200.7	04/11/2007 01:31:00 PM
Sodium as Na (SPLP)	61	mg/l	BH	0.5	200.7	04/11/2007 01:31:00 PM
Aluminum as Al (SPLP)	2.90	mg/l	BH	0.05	200.7	05/15/2007 02:38:00 PM
Arsenic as As (SPLP)	0.032	mg/l	AH	0.001	200.8	04/10/2007 11:58:00 AM
Barium as Ba (SPLP)	0.35 B	mg/l	AH	0.005	200.8	04/10/2007 11:58:00 AM
Boron as B (SPLP)	0.4 B	mg/l	BH	0.1	200.7	04/10/2007 05:11:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	AH	0.0001	200.8	04/10/2007 11:58:00 AM
Chromium as Cr (SPLP)	0.003	mg/l	AH	0.001	200.8	04/10/2007 11:58:00 AM
Copper as Cu (SPLP)	0.014	mg/l	AH	0.001	200.8	04/10/2007 11:58:00 AM
Iron as Fe (SPLP)	2.61	mg/l	BH	0.01	200.7	05/15/2007 02:38:00 PM
Iron as Fe (Total, SPLP)	6.25	mg/l	BH	0.01	200.7	04/13/2007 03:22:00 PM
Lead as Pb (SPLP)	0.006	mg/l	AH	0.001	200.8	04/10/2007 11:58:00 AM
Manganese as Mn (SPLP)	0.017	mg/l	AH	0.005	200.8/	04/10/2007 11:58:00 AM
Mercury as Hg (SPLP)	0.00004	mg/l	BH	0.00001	200.8	04/24/2007 08:22:19 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.8	04/10/2007 11:58:00 AM
Nickel as Ni (SPLP)	0.01	mg/l	AH	0.01	200.8	04/10/2007 11:58:00 AM
Selenium as Se (SPLP)	0.016	mg/l	AH	0.001	200.8	04/10/2007 11:58:00 AM
Uranium as U (SPLP)	0.003	mg/l	AH	0.001	200.8	04/12/2007 10:25:00 AM
Vanadium as V (SPLP)	0.05	mg/l	AH	0.01	200.8	04/10/2007 11:58:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100190-12
Sample Name: SHMW-12D @ 44-49'
Sample Date/Time: 10/12/2006 16:30:
Collected by: ANA VARGO
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.19 B	mg/l	AH	0.01	200.8	04/10/2007 11:58:00 AM
SPLP Extraction Date	6677	---	LL	---	1312	04/04/2007 06:50:00 PM
SPLP ICP/AA Batch #/Digest Date	1770	---	GC	---	200.7	04/11/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100190-20
Sample Name: SHMW-12D @ 80-81-1/2'
Sample Date/Time: 10/13/2006 08:30:
Collected by: ANA VARGO
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/10/2007 08:08:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	96	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	79	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	04/09/2007 08:55:00 PM
Electrical Conductivity (SPLP)	367	umhos/cm	TD	10	2510B	04/09/2007 10:30:00 AM
Fluoride (undistilled) (SPLP)	1.24 J	mg/l	MRK	0.1	300.0	04/09/2007 08:55:00 PM
Hardness as CaCO3 (SPLP)	14 J	mg/l	BH	4	2340B	04/11/2007 01:33:00 PM
pH (SPLP)	7.7	S.U.	TD	1.0-13.5	150.1	04/09/2007 12:30:00 PM
Sodium Absorption Ratio (SPLP)	7.33 J	---	BH	0.1	20b	04/11/2007 01:33:00 PM
Total Dissolved Solids (SPLP)	353	mg/l	ES	20	160.1	04/09/2006 12:35:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/09/2007 12:35:00 PM
Calcium as Ca (SPLP)	4.1 J B	mg/l	BH	0.5	200.7	04/11/2007 01:33:00 PM
Magnesium as Mg (SPLP)	0.8	mg/l	BH	0.5	200.7	04/11/2007 01:33:00 PM
Potassium as K (SPLP)	1.6	mg/l	BH	0.5	200.7	04/11/2007 01:33:00 PM
Sodium as Na (SPLP)	62	mg/l	BH	0.5	200.7	04/11/2007 01:33:00 PM
Aluminum as Al (SPLP)	2.03	mg/l	BH	0.05	200.7	05/15/2007 02:41:00 PM
Arsenic as As (SPLP)	0.022	mg/l	AH	0.001	200.8	04/10/2007 12:04:00 PM
Barium as Ba (SPLP)	0.43 B	mg/l	AH	0.005	200.8	04/10/2007 12:04:00 PM
Boron as B (SPLP)	1.5 B	mg/l	BH	0.1	200.7	04/10/2007 05:15:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	AH	0.0001	200.8	04/10/2007 12:04:00 PM
Chromium as Cr (SPLP)	0.002 J	mg/l	AH	0.001	200.8	04/10/2007 12:04:00 PM
Copper as Cu (SPLP)	0.010 B	mg/l	AH	0.001	200.8	04/10/2007 12:04:00 PM
Iron as Fe (SPLP)	1.31	mg/l	BH	0.01	200.7	05/15/2007 02:41:00 PM
Iron as Fe (Total, SPLP)	2.14	mg/l	BH	0.01	200.7	04/13/2007 03:25:00 PM
Lead as Pb (SPLP)	0.002	mg/l	AH	0.001	200.8	04/10/2007 12:04:00 PM
Manganese as Mn (SPLP)	0.009	mg/l	AH	0.005	200.7	04/10/2007 12:04:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/24/2007 08:26:59 PM
Molybdenum as Mo (SPLP)	0.07	mg/l	AH	0.05	200.8	04/10/2007 12:04:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	AH	0.01	200.8	04/10/2007 12:04:00 PM
Selenium as Se (SPLP)	0.006 B	mg/l	AH	0.001	200.8	04/10/2007 12:04:00 PM
Uranium as U (SPLP)	0.001	mg/l	AH	0.001	200.8	04/12/2007 10:27:00 AM
Vanadium as V (SPLP)	0.15	mg/l	AH	0.01	200.8	04/10/2007 12:04:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100190-20
Sample Name: SHMW-12D @ 80-81-1/2'
Sample Date/Time: 10/13/2006 08:30:
Collected by: ANA VARGO
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.43 J B	mg/l	AH	0.01	200.8	04/10/2007 12:04:00 PM
SPLP Extraction Date	6677	---	LL	---	1312	04/05/2007 05:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1770	---	GC	---	200.7	04/11/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100190-24
Sample Name: SHMW-12D @ 95-100'
Sample Date/Time: 10/13/2006 09:45:
Collected by: ANA VARGO
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	19	mg/l	ES	5	305.2	04/10/2007 08:08:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	59	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	49	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Chloride as Cl (SPLP)	3	mg/l	MRK	1	300.0	04/09/2007 09:55:00 PM
Electrical Conductivity (SPLP)	309	umhos/cm	TD	10	2510B	04/09/2007 10:30:00 AM
Fluoride (undistilled) (SPLP)	0.53	mg/l	MRK	0.1	300.0	04/09/2007 09:55:00 PM
Hardness as CaCO3 (SPLP)	7	mg/l	BH	4	2340B	04/11/2007 01:40:00 PM
pH (SPLP)	6.5	S.U.	TD	1.0-13.5	150.1	04/09/2007 12:30:00 PM
Sodium Absorption Ratio (SPLP)	8.21	---	BH	0.1	20b	04/11/2007 01:40:00 PM
Total Dissolved Solids (SPLP)	279	mg/l	ES	20	160.1	04/09/2006 12:35:00 PM
Total Suspended Solids (SPLP)	6	mg/l	ES	4	160.2	04/09/2007 12:35:00 PM
Calcium as Ca (SPLP)	1.0 B	mg/l	BH	0.5	200.7	04/11/2007 01:40:00 PM
Magnesium as Mg (SPLP)	1.1	mg/l	BH	0.5	200.7	04/11/2007 01:40:00 PM
Potassium as K (SPLP)	1.5	mg/l	BH	0.5	200.7	04/11/2007 01:40:00 PM
Sodium as Na (SPLP)	50	mg/l	BH	0.5	200.7	04/11/2007 01:40:00 PM
Aluminum as Al (SPLP)	2.52	mg/l	BH	0.05	200.7	05/15/2007 02:52:00 PM
Arsenic as As (SPLP)	0.018	mg/l	AH	0.001	200.8	04/10/2007 12:21:00 PM
Barium as Ba (SPLP)	0.15 B	mg/l	AH	0.005	200.8	04/10/2007 12:21:00 PM
Boron as B (SPLP)	0.3 B	mg/l	BH	0.1	200.7	04/10/2007 05:26:00 PM
Cadmium as Cd (SPLP)	0.0003	mg/l	AH	0.0001	200.8	04/10/2007 12:21:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	AH	0.001	200.8	04/10/2007 12:21:00 PM
Copper as Cu (SPLP)	0.005 B	mg/l	AH	0.001	200.8	04/10/2007 12:21:00 PM
Iron as Fe (SPLP)	1.05	mg/l	BH	0.01	200.7	05/15/2007 02:52:00 PM
Iron as Fe (Total, SPLP)	1.49	mg/l	BH	0.01	200.7	04/13/2007 03:36:00 PM
Lead as Pb (SPLP)	0.001	mg/l	AH	0.001	200.8	04/10/2007 12:21:00 PM
Manganese as Mn (SPLP)	0.005	mg/l	AH	0.005	200.8	04/10/2007 12:21:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/24/2007 08:41:03 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.8	04/10/2007 12:21:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	AH	0.01	200.8	04/10/2007 12:21:00 PM
Selenium as Se (SPLP)	0.002	mg/l	AH	0.001	200.8	04/10/2007 12:21:00 PM
Uranium as U (SPLP)	0.001	mg/l	AH	0.001	200.8	04/12/2007 10:35:00 AM
Vanadium as V (SPLP)	0.01	mg/l	AH	0.01	200.8	04/10/2007 12:21:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100190-24
Sample Name: SHMW-12D @ 95-100'
Sample Date/Time: 10/13/2006 09:45:
Collected by: ANA VARGO
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.11 B	mg/l	AH	0.01	200.8	04/10/2007 12:21:00 PM
SPLP Extraction Date	6677	---	LL	---	1312	04/05/2007 05:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1770	---	GC	---	200.7	04/11/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2006100190-37
Sample Name: SHMW-12D @ 173-178'
Sample Date/Time: 10/13/2006 16:00:00
Collected by: RUSSELL J. MARCHESE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<1	mg/l	RM	1	305.2	08/21/2007 09:56:11 AM
Alkalinity Bicarb. as HCO ₃ (SPLP)	160	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Alkalinity Carbonate as CO ₃ (SPLP)	12	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Alkalinity Total as CaCO ₃ (SPLP)	152	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Chloride as Cl (SPLP)	<1	mg/l	ES	1	300.0	08/25/2007 07:05:00 PM
Electrical Conductivity (SPLP)	303	umhos/cm	LL	10	2510B	08/10/2007 09:05:00 AM
Fluoride (undistilled) (SPLP)	0.30	mg/l	ES	0.1	300.0	08/25/2007 07:05:00 PM
Hardness as CaCO ₃ (SPLP)	<4	mg/l	BH	4	2340B	08/20/2007 11:44:00 AM
pH (SPLP)	9.3	S.U.	LL	1.0-13.5	150.1	08/08/2007 03:50:00 PM
Sodium Absorption Ratio (SPLP)	16.2	—	BH	0.1	20b	08/20/2007 11:44:00 AM
Total Dissolved Solids (SPLP)	209HT	mg/l	RM	10	2540C	08/16/2007 01:54:00 PM
Total Suspended Solids (SPLP)	<4HT	mg/l	RM	4	2540D	08/16/2007 02:22:00 PM
Calcium as Ca (SPLP)	1.3	mg/l	BH	0.5	200.7	08/20/2007 11:44:00 AM
Magnesium as Mg (SPLP)	<0.5	mg/l	BH	0.5	200.7	08/20/2007 11:44:00 AM
Potassium as K (SPLP)	1.7	mg/l	BH	0.5	200.7	08/20/2007 11:44:00 AM
Sodium as Na (SPLP)	67	mg/l	BH	0.5	200.7	08/20/2007 11:44:00 AM
Aluminum as Al (SPLP)	0.72	mg/l	KC	0.05	200.7	08/17/2007 10:19:00 PM
Arsenic as As (SPLP)	0.023	mg/l	DK	0.001	200.8	08/29/2007 12:08:00 PM
Barium as Ba (SPLP)	0.19	mg/l	DK	0.005	200.8	08/29/2007 12:08:00 PM
Boron as B (SPLP)	0.3	mg/l	KC	0.1	200.7	08/17/2007 10:19:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	DK	0.0001	200.8	08/29/2007 12:08:00 PM
Chromium as Cr (SPLP)	0.003	mg/l	DK	0.001	200.8	08/23/2007 08:10:00 PM
Copper as Cu (SPLP)	0.003	mg/l	DK	0.001	200.8	08/23/2007 08:10:00 PM
Iron as Fe (SPLP)	0.36	mg/l	KC	0.01	200.7	08/17/2007 10:19:00 PM
Iron as Fe (Total, SPLP)	0.95	mg/l	BH	0.01	200.7	08/23/2007 01:28:00 PM
Lead as Pb (SPLP)	0.002	mg/l	DK	0.001	200.8	08/29/2007 12:08:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	KC	0.005	200.7	08/17/2007 10:19:00 PM
Mercury as Hg (SPLP)	0.00001	mg/l	DK	0.00001	200.8	08/27/2007 01:55:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	DK	0.05	200.8	08/29/2007 12:08:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	DK	0.01	200.8	08/23/2007 08:10:00 PM
Selenium as Se (SPLP)	0.002	mg/l	DK	0.001	200.8	08/29/2007 12:08:00 PM
Uranium as U (SPLP)	0.001	mg/l	DK	0.001	200.8	08/23/2007 08:10:00 PM
Vanadium as V (SPLP)	0.02	mg/l	DK	0.01	200.8	08/23/2007 08:10:00 PM

Southern Analytical Laboratories, Inc.

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2006100190-37
Sample Name: SHMW-12D @ 173-178'
Sample Date/Time: 10/13/2006 16:00:00
Collected by: RUSSELL J. MARCHESE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.06 B	mg/l	DK	0.01	200.8	08/23/2007 08:10:00 PM
SPLP Extraction Date	6750	—	LL	0.00	1312	08/06/2007 04:20:00 PM
SPLP ICP/AA Batch #/Digest Date	1048	—	JH	—	200.7	08/20/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100190-41
Sample Name: SHMW-12D @ 196.5-202.5'
Sample Date/Time: 10/13/2006 17:46:
Collected by: ANA VARGO
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/10/2007 08:08:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	136	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	1	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	113	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	04/09/2007 10:56:00 PM
Electrical Conductivity (SPLP)	340	umhos/cm	TD	10	2510B	04/09/2007 10:30:00 AM
Fluoride (undistilled) (SPLP)	0.55	mg/l	MRK	0.1	300.0	04/09/2007 10:56:00 PM
Hardness as CaCO3 (SPLP)	7	mg/l	BH	4	2340B	04/11/2007 01:49:00 PM
pH (SPLP)	8.4	S.U.	TD	1.0-13.5	150.1	04/09/2007 12:30:00 PM
Sodium Absorption Ratio (SPLP)	10.5	---	BH	0.1	20b	04/11/2007 01:49:00 PM
Total Dissolved Solids (SPLP)	276	mg/l	ES	20	160.1	04/09/2006 12:35:00 PM
Total Suspended Solids (SPLP)	4	mg/l	ES	4	160.2	04/09/2007 12:35:00 PM
Calcium as Ca (SPLP)	1.5 B	mg/l	BH	0.5	200.7	04/11/2007 01:49:00 PM
Magnesium as Mg (SPLP)	0.9	mg/l	BH	0.5	200.7	04/11/2007 01:49:00 PM
Potassium as K (SPLP)	2.2	mg/l	BH	0.5	200.7	04/11/2007 01:49:00 PM
Sodium as Na (SPLP)	66	mg/l	BH	0.5	200.7	04/11/2007 01:49:00 PM
Aluminum as Al (SPLP)	1.96	mg/l	BH	0.05	200.7	05/15/2007 03:11:00 PM
Arsenic as As (SPLP)	0.33	mg/l	AH	0.001	200.8	04/10/2007 12:48:00 PM
Barium as Ba (SPLP)	0.17 B	mg/l	AH	0.005	200.8	04/10/2007 12:48:00 PM
Boron as B (SPLP)	0.4 B	mg/l	BH	0.1	200.7	04/10/2007 05:40:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	AH	0.0001	200.8	04/10/2007 12:48:00 PM
Chromium as Cr (SPLP)	0.004	mg/l	AH	0.001	200.8	04/10/2007 12:48:00 PM
Copper as Cu (SPLP)	0.034	mg/l	AH	0.001	200.8	04/10/2007 12:48:00 PM
Iron as Fe (SPLP)	1.52	mg/l	BH	0.01	200.7	05/15/2007 03:11:00 PM
Iron as Fe (Total, SPLP)	2.38	mg/l	BH	0.01	200.7	04/13/2007 03:51:00 PM
Lead as Pb (SPLP)	0.003	mg/l	AH	0.001	200.8	04/10/2007 12:48:00 PM
Manganese as Mn (SPLP)	0.033	mg/l	AH	0.005	200.8	04/10/2007 12:48:00 PM
Mercury as Hg (SPLP)	0.00005	mg/l	AH	0.00001	200.8	04/24/2007 09:01:36 PM
Molybdenum as Mo (SPLP)	0.05	mg/l	AH	0.05	200.8	04/10/2007 12:48:00 PM
Nickel as Ni (SPLP)	0.02	mg/l	AH	0.01	200.8	04/10/2007 12:48:00 PM
Selenium as Se (SPLP)	0.020	mg/l	AH	0.001	200.8	04/10/2007 12:48:00 PM
Uranium as U (SPLP)	0.002	mg/l	AH	0.001	200.8	04/12/2007 10:43:00 AM
Vanadium as V (SPLP)	0.02	mg/l	AH	0.01	200.8	04/10/2007 12:48:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100190-41
Sample Name: SHMW-12D @ 196.5-202.5'
Sample Date/Time: 10/13/2006 17:46:
Collected by: ANA VARGO
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.10 B	mg/l	AH	0.01	200.8	04/10/2007 12:48:00 PM
SPLP Extraction Date	6677	---	LL	---	1312	04/05/2007 05:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1770	---	GC	---	200.7	04/11/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100190-47
Sample Name: SHMW-12D @ 225-230'
Sample Date/Time: 10/14/2006 11:10:
Collected by: ANA VARGO
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	5	mg/l	ES	5	305.2	04/10/2007 08:08:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	175	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	144	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	04/10/2007 09:35:00 AM
Electrical Conductivity (SPLP)	455	umhos/cm	TD	10	2510B	04/09/2007 10:30:00 AM
Fluoride (undistilled) (SPLP)	0.64	mg/l	MRK	0.1	300.0	04/10/2007 09:35:00 AM
Hardness as CaCO3 (SPLP)	25	mg/l	BH	4	2340B	04/11/2007 01:51:00 PM
pH (SPLP)	7.6	S.U.	TD	1.0-13.5	150.1	04/09/2007 12:30:00 PM
Sodium Absorption Ratio (SPLP)	6.83	---	BH	0.1	20b	04/11/2007 01:51:00 PM
Total Dissolved Solids (SPLP)	301	mg/l	ES	20	160.1	04/09/2006 12:35:00 PM
Total Suspended Solids (SPLP)	32	mg/l	ES	4	160.2	04/09/2007 12:35:00 PM
Calcium as Ca (SPLP)	7.5	mg/l	BH	0.5	200.7	04/11/2007 01:51:00 PM
Magnesium as Mg (SPLP)	1.6	mg/l	BH	0.5	200.7	04/11/2007 01:51:00 PM
Potassium as K (SPLP)	3.5	mg/l	BH	0.5	200.7	04/11/2007 01:51:00 PM
Sodium as Na (SPLP)	79	mg/l	BH	0.5	200.7	04/11/2007 01:51:00 PM
Aluminum as Al (SPLP)	0.89	mg/l	BH	0.05	200.7	05/15/2007 03:14:00 PM
Arsenic as As (SPLP)	0.005	mg/l	BH	0.001	200.8	04/10/2007 12:54:00 PM
Barium as Ba (SPLP)	0.25 B	mg/l	AH	0.005	200.8	04/10/2007 12:54:00 PM
Boron as B (SPLP)	0.2 B	mg/l	BH	0.1	200.7	04/10/2007 05:44:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	04/10/2007 12:54:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/10/2007 12:54:00 PM
Copper as Cu (SPLP)	0.010 B	mg/l	BH	0.001	200.8	04/10/2007 12:54:00 PM
Iron as Fe (SPLP)	1.31	mg/l	BH	0.01	200.7	05/15/2007 03:14:00 PM
Iron as Fe (Total, SPLP)	2.47	mg/l	BH	0.01	200.7	04/13/2007 03:55:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	AH	0.001	200.8	04/10/2007 12:54:00 PM
Manganese as Mn (SPLP)	0.11	mg/l	BH	0.005	200.8	04/10/2007 12:54:00 PM
Mercury as Hg (SPLP)	0.00004	mg/l	BH	0.00001	200.8	04/24/2007 09:06:19 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.8	04/10/2007 12:54:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/10/2007 12:54:00 PM
Selenium as Se (SPLP)	0.010	mg/l	BH	0.001	200.8	04/10/2007 12:54:00 PM
Uranium as U (SPLP)	0.005	mg/l	AH	0.001	200.8	04/12/2007 10:46:00 AM
Vanadium as V (SPLP)	0.02	mg/l	BH	0.01	200.8	04/10/2007 12:54:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2000100190-47
Sample Name: SHMW-12D @ 225-230'
Sample Date/Time: 10/14/2006 11:10:
Collected by: ANA VARGO
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.12 B	mg/l	AH	0.01	200.8	04/10/2007 12:54:00 PM
SPLP Extraction Date	6677	----	LL	---	1312	04/05/2007 05:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1770	----	GC	---	200.7	04/11/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	----	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	----	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110091-17
Sample Name: SHOB-01, 25-30
Sample Date/Time: 10/28/2006
Collected by: JOHN ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	77	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	63	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/17/2007 07:26:00 AM
Electrical Conductivity (SPLP)	333	umhos/cm	CC	10	2510B	05/14/2007 12:40:00 PM
Fluoride (undistilled) (SPLP)	0.43	mg/l	MRK	0.1	300.0	05/17/2007 07:26:00 AM
Hardness as CaCO3 (SPLP)	16	mg/l	KC	4	2340B	05/24/2007 01:09:00 PM
pH (SPLP)	7.6	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	6.36	---	KC	0.1	20b	05/24/2007 01:09:00 PM
Total Dissolved Solids (SPLP)	268	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	2.9	mg/l	KC	0.5	200.7	05/24/2007 01:09:00 PM
Magnesium as Mg (SPLP)	2.2	mg/l	KC	0.5	200.7	05/24/2007 01:09:00 PM
Potassium as K (SPLP)	4.5	mg/l	KC	0.5	200.7	05/24/2007 01:09:00 PM
Sodium as Na (SPLP)	59	mg/l	KC	0.5	200.7	05/24/2007 01:09:00 PM
Aluminum as Al (SPLP)	0.59	mg/l	KC	0.05	200.7	05/24/2007 12:49:00 AM
Arsenic as As (SPLP)	0.017	mg/l	BH	0.001	200.8	04/27/2007 11:49:00 PM
Barium as Ba (SPLP)	0.38	mg/l	BH	0.005	200.8	04/27/2007 11:49:00 PM
Boron as B (SPLP)	0.5	mg/l	KC	0.1	200.7	05/24/2007 12:49:00 AM
Cadmium as Cd (SPLP)	0.0003	mg/l	BH	0.0001	200.8	04/27/2007 11:49:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/27/2007 11:49:00 PM
Copper as Cu (SPLP)	0.014	mg/l	BH	0.001	200.8	04/27/2007 11:49:00 PM
Iron as Fe (SPLP)	0.41	mg/l	KC	0.01	200.7	05/24/2007 12:49:00 AM
Iron as Fe (Total, SPLP)	1.11	mg/l	BH	0.01	200.7	05/09/2007 04:08:00 PM
Lead as Pb (SPLP)	0.005	mg/l	BH	0.001	200.8	04/27/2007 11:49:00 PM
Manganese as Mn (SPLP)	0.026	mg/l	BH	0.005	200.8	04/27/2007 11:49:00 PM
Mercury as Hg (SPLP)	0.00006 JB	mg/l	BH	0.00001	200.8	05/09/2007 06:47:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 12:49:00 AM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/27/2007 11:49:00 PM
Selenium as Se (SPLP)	0.009	mg/l	BH	0.001	200.8	04/27/2007 11:49:00 PM
Uranium as U (SPLP)	0.001	mg/l	BH	0.001	200.8	05/01/2007 12:28:00 PM
Vanadium as V (SPLP)	0.04	mg/l	BH	0.01	200.8	04/27/2007 11:49:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110091-17
Sample Name: SHOB-01, 25-30
Sample Date/Time: 10/28/2006
Collected by: JOHN ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.24	mg/l	KC	0.01	200.7	05/24/2007 12:49:00 AM
SPLP Extraction Date	6697	---	LL	---	1312	04/18/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	---	KC	---	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110091-21
Sample Name: SHOB-01, 45-50
Sample Date/Time: 10/28/2006
Collected by: JOHN ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	66	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	4	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	61	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	<10	mg/l	MRK	1	300.0	05/17/2007 07:57:00 AM
Electrical Conductivity (SPLP)	315	umhos/cm	CC	10	2510B	05/14/2007 12:40:00 PM
Fluoride (undistilled) (SPLP)	<1	mg/l	MRK	0.1	300.0	05/17/2007 07:57:00 AM
Hardness as CaCO3 (SPLP)	11	mg/l	KC	4	2340B	05/24/2007 01:11:00 PM
pH (SPLP)	7.9	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	7.66	----	KC	0.1	20b	05/24/2007 01:11:00 PM
Total Dissolved Solids (SPLP)	638	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<12	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.7	mg/l	KC	0.5	200.7	05/24/2007 01:11:00 PM
Magnesium as Mg (SPLP)	1.7	mg/l	KC	0.5	200.7	05/24/2007 01:11:00 PM
Potassium as K (SPLP)	1.9	mg/l	KC	0.5	200.7	05/24/2007 01:11:00 PM
Sodium as Na (SPLP)	59	mg/l	KC	0.5	200.7	05/24/2007 01:11:00 PM
Aluminum as Al (SPLP)	2.40	mg/l	KC	0.05	200.7	05/24/2007 12:52:00 AM
Arsenic as As (SPLP)	0.028	mg/l	BH	0.001	200.8	04/27/2007 11:55:00 PM
Barium as Ba (SPLP)	0.36	mg/l	BH	0.005	200.8	04/27/2007 11:55:00 PM
Boron as B (SPLP)	0.9	mg/l	KC	0.1	200.7	05/24/2007 12:52:00 AM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	04/27/2007 11:55:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/27/2007 11:55:00 PM
Copper as Cu (SPLP)	0.009	mg/l	BH	0.001	200.8	04/27/2007 11:55:00 PM
Iron as Fe (SPLP)	2.45	mg/l	KC	0.01	200.7	05/24/2007 12:52:00 AM
Iron as Fe (Total, SPLP)	7.92	mg/l	BH	0.01	200.7	05/09/2007 04:12:00 PM
Lead as Pb (SPLP)	0.006	mg/l	BH	0.001	200.8	04/27/2007 11:55:00 PM
Manganese as Mn (SPLP)	0.044	mg/l	BH	0.005	200.8	04/27/2007 11:55:00 PM
Mercury as Hg (SPLP)	0.00006 B	mg/l	BH	0.00001	200.8	05/09/2007 06:52:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 12:52:00 AM
Nickel as Ni (SPLP)	0.02	mg/l	BH	0.01	200.8	04/27/2007 11:55:00 PM
Selenium as Se (SPLP)	0.005	mg/l	BH	0.001	200.8	04/27/2007 11:55:00 PM
Uranium as U (SPLP)	0.001	mg/l	BH	0.001	200.8	05/01/2007 12:30:00 PM
Vanadium as V (SPLP)	0.11	mg/l	BH	0.01	200.8	04/27/2007 11:55:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110091-21
Sample Name: SHOB-01, 45-50
Sample Date/Time: 10/28/2006
Collected by: JOHN ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.62	mg/l	KC	0.01	200.7	05/24/2007 12:52:00 AM
SPLP Extraction Date	6697	---	LL	---	1312	04/19/2007 05:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	---	KC	---	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: SOUTH HEART OVERBURDEN
 Project Name: SOUTH HEART OVERBURDEN
 Project No.: 063-2174
 Laboratory No.: 2006100195-21
 Sample Name: SHOB-02; 5-10'
 Sample Date/Time: 10/16/2006 16:16:00
 Collected by: RYAN TOLENE
 Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<1	mg/l	RM	1	305.2	08/21/2007 09:56:13 AM
Alkalinity Bicarb. as HCO ₃ (SPLP)	63	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Alkalinity Carbonate as CO ₃ (SPLP)	0	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Alkalinity Total as CaCO ₃ (SPLP)	51	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Chloride as Cl (SPLP)	<1	mg/l	ES	1	300.0	08/25/2007 07:05:00 PM
Electrical Conductivity (SPLP)	570	umhos/cm	LL	10	2510B	08/10/2007 09:05:00 AM
Fluoride (undistilled) (SPLP)	0.40	mg/l	ES	0.1	300.0	08/25/2007 07:05:00 PM
Hardness as CaCO ₃ (SPLP)	111	mg/l	BH	4	2340B	08/20/2007 11:55:00 AM
pH (SPLP)	8.5	S.U.	LL	1.0-13.5	150.1	08/08/2007 03:50:00 PM
Sodium Absorption Ratio (SPLP)	2.64	---	BH	0.1	20b	08/20/2007 11:55:00 AM
Total Dissolved Solids (SPLP)	355HT	mg/l	RM	10	2540C	08/16/2007 01:54:00 PM
Total Suspended Solids (SPLP)	<4HT	mg/l	RM	4	2540D	08/16/2007 02:22:00 PM
Calcium as Ca (SPLP)	23	mg/l	BH	0.5	200.7	08/20/2007 11:55:00 AM
Magnesium as Mg (SPLP)	13	mg/l	BH	0.5	200.7	08/20/2007 11:55:00 AM
Potassium as K (SPLP)	2.6	mg/l	BH	0.5	200.7	08/20/2007 11:55:00 AM
Sodium as Na (SPLP)	64	mg/l	BH	0.5	200.7	08/20/2007 11:55:00 AM
Aluminum as Al (SPLP)	0.08	mg/l	KC	0.05	200.7	08/17/2007 10:41:00 PM
Arsenic as As (SPLP)	<0.001	mg/l	DK	0.001	200.8	08/29/2007 12:43:00 PM
Barium as Ba (SPLP)	0.31	mg/l	DK	0.005	200.8	08/29/2007 12:43:00 PM
Boron as B (SPLP)	0.3	mg/l	KC	0.1	200.7	08/17/2007 10:41:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	DK	0.0001	200.8	08/29/2007 12:43:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	DK	0.001	200.8	08/23/2007 08:57:00 PM
Copper as Cu (SPLP)	0.007	mg/l	DK	0.001	200.8	08/23/2007 08:57:00 PM
Iron as Fe (SPLP)	0.03	mg/l	KC	0.01	200.7	08/17/2007 10:41:00 PM
Iron as Fe (Total, SPLP)	0.07	mg/l	KC	0.01	200.7	08/28/2007 02:29:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	DK	0.001	200.8	08/29/2007 12:43:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	KC	0.005	200.7	08/17/2007 10:41:00 PM
Mercury as Hg (SPLP)	0.00001	mg/l	DK	0.00001	200.8	08/27/2007 02:31:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	DK	0.05	200.8	08/29/2007 12:43:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	DK	0.01	200.8	08/23/2007 08:57:00 PM
Selenium as Se (SPLP)	0.001	mg/l	DK	0.001	200.8	08/29/2007 12:43:00 PM
Uranium as U (SPLP)	0.004	mg/l	DK	0.001	200.8	08/23/2007 08:57:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	DK	0.01	200.8	08/23/2007 08:57:00 PM

Northern Analytical Laboratories, Inc.

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100195-21
Sample Name: SHOB-02; 5-10'
Sample Date/Time: 10/16/2006 16:16:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.04 B	mg/l	DK	0.01	200.8	08/23/2007 08:57:00 PM
SPLP Extraction Date	6750	---	LL	---	1312	08/06/2007 04:20:00 PM
SPLP ICP/AA Batch #/Digest Date	1048	----	JH	---	200.7	08/20/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100195-27
Sample Name: SHOB-02, 50-55'
Sample Date/Time: 10/16/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/20/2007 07:28:02 PM
Alkalinity Bicarb. as HCO3 (SPLP)	33	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	27	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Chloride as Cl (SPLP)	2 B	mg/l	MRK	1	300.0	05/10/2007 04:03:00 AM
Electrical Conductivity (SPLP)	324	umhos/cm	TD	10	2510B	04/20/2007 02:00:00 PM
Fluoride (undistilled) (SPLP)	0.41 B	mg/l	MRK	0.1	300.0	05/10/2007 04:03:00 AM
Hardness as CaCO3 (SPLP)	7	mg/l	AH	4	2340B	04/26/2007 06:36:00 PM
pH (SPLP)	7.2	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	8.18	---	BH	0.1	20b	05/18/2007 01:21:00 PM
Total Dissolved Solids (SPLP)	249	mg/l	ES	20	160.1	04/13/2007 09:35:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/13/2007 09:35:00 AM
Calcium as Ca (SPLP)	1.3 B	mg/l	AH	0.5	200.7	04/26/2007 06:36:00 PM
Magnesium as Mg (SPLP)	1.0	mg/l	AH	0.5	200.7	04/26/2007 06:36:00 PM
Potassium as K (SPLP)	1.8	mg/l	KC	0.5	200.7	04/30/2007 06:11:00 PM
Sodium as Na (SPLP)	51	mg/l	BH	0.5	200.7	05/18/2007 01:21:00 PM
Aluminum as Al (SPLP)	2.44	mg/l	AH	0.05	200.7	04/26/2007 06:36:00 PM
Arsenic as As (SPLP)	0.016	mg/l	BH	0.001	200.8	04/18/2007 07:34:00 PM
Barium as Ba (SPLP)	0.44 B	mg/l	BH	0.005	200.8	04/18/2007 07:34:00 PM
Boron as B (SPLP)	0.3	mg/l	AH	0.1	200.7	04/26/2007 06:36:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/18/2007 07:34:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/18/2007 07:34:00 PM
Copper as Cu (SPLP)	0.009	mg/l	BH	0.001	200.8	04/18/2007 07:34:00 PM
Iron as Fe (SPLP)	0.97	mg/l	AH	0.01	200.7	04/26/2007 06:36:00 PM
Iron as Fe (Total, SPLP)	0.85	mg/l	KC	0.01	200.7	04/24/2007 04:00:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	04/18/2007 07:34:00 PM
Manganese as Mn (SPLP)	0.009	mg/l	BH	0.005	200.8	04/18/2007 07:34:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/24/2007 11:50:22 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 06:36:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/18/2007 07:34:00 PM
Selenium as Se (SPLP)	0.007	mg/l	BH	0.001	200.8	04/18/2007 07:34:00 PM
Uranium as U (SPLP)	0.003	mg/l	BH	0.001	200.8	04/26/2007 01:29:00 PM
Vanadium as V (SPLP)	0.02	mg/l	BH	0.01	200.8	04/18/2007 07:34:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100195-27
Sample Name: SHOB-02, 50-55'
Sample Date/Time: 10/16/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.25 B	mg/l	AH	0.01	200.7	04/26/2007 06:36:00 PM
SPLP Extraction Date	6681	---	LL	---	1312	04/09/2007 05:35:00 PM
SPLP ICP/AA Batch #/Digest Date	1802	---	KC	---	200.7	04/20/2007 03:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100195-34
Sample Name: SHOB-02, 85-90'
Sample Date/Time: 10/16/2006 00:00:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/23/2007 12:55:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	168	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	138	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	04/26/2007 10:48:00 PM
Electrical Conductivity (SPLP)	404	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.32	mg/l	MRK	0.1	300.0	04/26/2007 10:48:00 PM
Hardness as CaCO3 (SPLP)	<4	mg/l	KC	4	2340B	04/30/2007 07:22:00 PM
pH (SPLP)	7.3	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	0.58	---	KC	0.1	20b	05/03/2007 05:22:00 PM
Total Dissolved Solids (SPLP)	277	mg/l	ES	20	160.1	04/18/2007 04:45:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/18/2007 04:44:00 PM
Calcium as Ca (SPLP)	1.1	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Magnesium as Mg (SPLP)	<0.5	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Potassium as K (SPLP)	2.2	mg/l	KC	0.5	200.7	04/30/2007 06:11:00 PM
Sodium as Na (SPLP)	95	mg/l	KC	0.5	200.7	05/03/2007 05:22:00 PM
Aluminum as Al (SPLP)	0.52	mg/l	AH	0.05	200.7	04/26/2007 07:50:00 PM
Arsenic as As (SPLP)	0.017	mg/l	BH	0.001	200.8	04/26/2007 04:18:00 PM
Barium as Ba (SPLP)	0.12B	mg/l	BH	0.005	200.8	04/26/2007 04:18:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/03/2007 05:22:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/26/2007 04:18:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 04:18:00 PM
Copper as Cu (SPLP)	0.004	mg/l	BH	0.001	200.8	04/26/2007 04:18:00 PM
Iron as Fe (SPLP)	0.38	mg/l	KC	0.01	200.7	05/03/2007 05:22:00 PM
Iron as Fe (Total, SPLP)	0.30	mg/l	KC	0.01	200.7	04/24/2007 05:58:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 04:18:00 PM
Manganese as Mn (SPLP)	0.008	mg/l	BH	0.005	200.8	04/26/2007 04:18:00 PM
Mercury as Hg (SPLP)	0.00016	mg/l	BH	0.00001	200.8	04/25/2007 12:56:52 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 07:50:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 04:18:00 PM
Selenium as Se (SPLP)	0.007	mg/l	BH	0.001	200.8	04/26/2007 04:18:00 PM
Uranium as U (SPLP)	0.004	mg/l	BH	0.001	200.8	04/26/2007 01:55:00 PM
Vanadium as V (SPLP)	0.03	mg/l	AH	0.01	200.7	04/26/2007 07:50:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100195-34
Sample Name: SHOB-02, 85-90'
Sample Date/Time: 10/16/2006 00:00:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.12 B	mg/l	KC	0.01	200.7	05/03/2007 05:22:00 PM
SPLP Extraction Date	6684	---	LL	---	1312	04/10/2007 04:50:00 PM
SPLP ICP/AA Batch #/Digest Date	1803	---	KC	---	200.7	04/20/2007 05:10:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100195-53
Sample Name: SHOB-02, 170-175'
Sample Date/Time: 10/16/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/23/2007 12:55:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	194	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	6	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	170	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	04/26/2007 10:48:00 PM
Electrical Conductivity (SPLP)	503	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.59	mg/l	MRK	0.1	300.0	04/26/2007 10:48:00 PM
Hardness as CaCO3 (SPLP)	9	mg/l	KC	4	2340B	04/30/2007 07:22:00 PM
pH (SPLP)	9.0	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	15.7	---	KC	0.1	20b	05/03/2007 05:26:00 PM
Total Dissolved Solids (SPLP)	368	mg/l	ES	20	160.1	04/18/2007 04:45:00 PM
Total Suspended Solids (SPLP)	8	mg/l	ES	4	160.2	04/18/2007 04:44:00 PM
Calcium as Ca (SPLP)	2.4	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Magnesium as Mg (SPLP)	0.8	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Potassium as K (SPLP)	2.6	mg/l	KC	0.5	200.7	04/30/2007 06:11:00 PM
Sodium as Na (SPLP)	110	mg/l	KC	0.5	200.7	05/03/2007 05:26:00 PM
Aluminum as Al (SPLP)	3.98	mg/l	KC	0.05	200.7	05/03/2007 05:26:00 PM
Arsenic as As (SPLP)	0.016	mg/l	BH	0.001	200.8	04/26/2007 04:24:00 PM
Barium as Ba (SPLP)	0.48 B	mg/l	BH	0.005	200.8	04/26/2007 04:24:00 PM
Boron as B (SPLP)	0.3	mg/l	KC	0.1	200.7	05/03/2007 05:26:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/26/2007 04:24:00 PM
Chromium as Cr (SPLP)	0.003	mg/l	BH	0.001	200.8	04/26/2007 04:24:00 PM
Copper as Cu (SPLP)	0.009	mg/l	BH	0.001	200.8	04/26/2007 04:24:00 PM
Iron as Fe (SPLP)	1.64	mg/l	KC	0.01	200.7	05/03/2007 05:26:00 PM
Iron as Fe (Total, SPLP)	1.6	mg/l	KC	0.01	200.7	04/24/2007 05:58:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 04:24:00 PM
Manganese as Mn (SPLP)	0.063	mg/l	BH	0.005	200.8	04/26/2007 04:24:00 PM
Mercury as Hg (SPLP)	0.00002J	mg/l	BH	0.00001	200.8	04/25/2007 01:01:31 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 07:54:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 04:24:00 PM
Selenium as Se (SPLP)	0.011	mg/l	BH	0.001	200.8	04/26/2007 04:24:00 PM
Uranium as U (SPLP)	0.005	mg/l	BH	0.001	200.8	04/26/2007 01:57:00 PM
Vanadium as V (SPLP)	0.02	mg/l	AH	0.01	200.7	04/26/2007 07:54:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100195-53
Sample Name: SHOB-02, 170-175'
Sample Date/Time: 10/16/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.29 B	mg/l	KC	0.01	200.8	05/03/2007 05:26:00 PM
SPLP Extraction Date	6684	---	LL	---	1312	04/10/2007 04:50:00 PM
SPLP ICP/AA Batch #/Digest Date	1803	---	KC	---	200.7	04/20/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110085-4
Sample Name: SHOB-03, 15-20
Sample Date/Time: 10/27/2006 ---
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	136 (9)	mg/l	ES	5	305.2	05/04/2007 09:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	<1 (9)	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0 (9)	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	<1 (9)	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/18/2007 08:42:00 AM
Electrical Conductivity (SPLP)	1880(9)	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.16	mg/l	MRK	0.1	300.0	05/18/2007 08:42:00 AM
Hardness as CaCO3 (SPLP)	340	mg/l	KC	4	2340B	05/04/2007 12:56:00 PM
pH (SPLP)	2.7(9)	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:00:00 PM
Sodium Absorption Ratio (SPLP)	2.45	---	KC	0.1	20b	05/04/2007 12:56:00 PM
Total Dissolved Solids (SPLP)	794(9)	mg/l	RM	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<16	mg/l	RM	4	160.2	04/27/2007 08:00:00 AM
Calcium as Ca (SPLP)	84	mg/l	KC	0.5	200.7	05/04/2007 12:56:00 PM
Magnesium as Mg (SPLP)	32	mg/l	KC	0.5	200.7	05/04/2007 12:56:00 PM
Potassium as K (SPLP)	4.3	mg/l	KC	0.5	200.7	05/04/2007 12:56:00 PM
Sodium as Na (SPLP)	104	mg/l	KC	0.5	200.7	05/04/2007 12:56:00 PM
Aluminum as Al (SPLP)	0.42	mg/l	KC	0.05	200.7	05/04/2007 12:56:00 PM
Arsenic as As (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 09:55:00 PM
Barium as Ba (SPLP)	0.28	mg/l	BH	0.005	200.8	05/08/2007 09:55:00 PM
Boron as B (SPLP)	0.5B	mg/l	KC	0.1	200.7	05/04/2007 12:56:00 PM
Cadmium as Cd (SPLP)	0.0008	mg/l	BH	0.0001	200.8	05/08/2007 09:55:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	05/08/2007 09:55:00 PM
Copper as Cu (SPLP)	0.011	mg/l	BH	0.001	200.8	05/08/2007 09:55:00 PM
Iron as Fe (SPLP)	0.11	mg/l	BH	0.01	200.7	05/04/2007 12:56:00 PM
Iron as Fe (Total, SPLP)	0.15 B	mg/l	BH	0.01	200.7	05/09/2007 05:57:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 09:55:00 PM
Manganese as Mn (SPLP)	0.059	mg/l	BH	0.005	200.8	05/08/2007 09:55:00 PM
Mercury as Hg (SPLP)	0.00002	mg/l	BH	0.00001	200.8	05/09/2007 10:54:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 12:56:00 PM
Nickel as Ni (SPLP)	0.02	mg/l	BH	0.01	200.8	05/08/2007 09:55:00 PM
Selenium as Se (SPLP)	0.001	mg/l	BH	0.001	200.8	05/08/2007 09:55:00 PM
Uranium as U (SPLP)	0.001	mg/l	AH	0.001	200.8	05/24/2007 11:58:00 AM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 09:55:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110085-4
Sample Name: SHOB-03, 15-20
Sample Date/Time: 10/27/2006 ----
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.34	mg/l	KC	0.01	200.7	05/04/2007 12:56:00 PM
SPLP Extraction Date	6700	----	LL	----	1312	04/23/2007 12:00:00 AM
SPLP ICP/AA Batch #/Digest Date	1823	----	KC	----	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110085-9
Sample Name: SHOB-03, 40-45
Sample Date/Time: 10/27/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	NA	---	---	---	---	---
Alkalinity Bicarb. as HCO3 (SPLP)	NA	---	---	---	---	---
Alkalinity Carbonate as CO3 (SPLP)	NA	---	---	---	---	---
Alkalinity Total as CaCO3 (SPLP)	NA	---	---	---	---	---
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/18/2007 09:12:00 AM
Electrical Conductivity (SPLP)	454	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.61	mg/l	MRK	0.1	300.0	05/18/2007 09:12:00 AM
Hardness as CaCO3 (SPLP)	13	mg/l	KC	4	2340B	05/04/2007 12:59:00 PM
pH (SPLP)	NA	---	---	---	---	---
Sodium Absorption Ratio (SPLP)	10.5	---	KC	0.1	20b	05/04/2007 12:59:00 PM
Total Dissolved Solids (SPLP)	381	mg/l	RM	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<10	mg/l	RM	4	160.2	04/27/2007 08:00:00 AM
Calcium as Ca (SPLP)	2.6	mg/l	KC	0.5	200.7	05/04/2007 12:59:00 PM
Magnesium as Mg (SPLP)	1.6	mg/l	KC	0.5	200.7	05/04/2007 12:59:00 PM
Potassium as K (SPLP)	3.6	mg/l	KC	0.5	200.7	05/04/2007 12:59:00 PM
Sodium as Na (SPLP)	87	mg/l	KC	0.5	200.7	05/04/2007 12:59:00 PM
Aluminum as Al (SPLP)	3.30	mg/l	KC	0.05	200.7	05/04/2007 12:59:00 PM
Arsenic as As (SPLP)	0.033	mg/l	BH	0.001	200.8	05/08/2007 10:01:00 PM
Barium as Ba (SPLP)	0.48	mg/l	BH	0.005	200.8	05/08/2007 10:01:00 PM
Boron as B (SPLP)	0.3B	mg/l	KC	0.1	200.7	05/04/2007 12:59:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	05/08/2007 10:01:00 PM
Chromium as Cr (SPLP)	0.003	mg/l	BH	0.001	200.8	05/08/2007 10:01:00 PM
Copper as Cu (SPLP)	0.034	mg/l	BH	0.001	200.8	05/08/2007 10:01:00 PM
Iron as Fe (SPLP)	1.96	mg/l	BH	0.01	200.7	05/04/2007 12:59:00 PM
Iron as Fe (Total, SPLP)	3.08	mg/l	BH	0.01	200.7	05/09/2007 05:53:00 PM
Lead as Pb (SPLP)	0.004	mg/l	BH	0.001	200.8	05/08/2007 10:01:00 PM
Manganese as Mn (SPLP)	0.038	mg/l	BH	0.005	200.8	05/08/2007 10:01:00 PM
Mercury as Hg (SPLP)	0.00006	mg/l	BH	0.00001	200.8	05/09/2007 10:58:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 12:59:00 PM
Nickel as Ni (SPLP)	0.02	mg/l	BH	0.01	200.8	05/08/2007 10:01:00 PM
Selenium as Se (SPLP)	0.016	mg/l	BH	0.001	200.8	05/08/2007 10:01:00 PM
Uranium as U (SPLP)	0.003	mg/l	AH	0.001	200.8	05/24/2007 12:04:00 PM
Vanadium as V (SPLP)	0.09	mg/l	BH	0.01	200.8	05/08/2007 10:01:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110085-9
Sample Name: SHOB-03, 40-45
Sample Date/Time: 10/27/2006 ----
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.14 B	mg/l	KC	0.01	200.7	05/04/2007 12:59:00 PM
SPLP Extraction Date	6700	----	LL	----	1312	04/20/2007 04:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1823	----	KC	----	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110091-4
Sample Name: SHOB-04, 15-20
Sample Date/Time: 10/28/2006
Collected by: JOHN ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	62	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	51	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/17/2007 04:54:00 AM
Electrical Conductivity (SPLP)	404	umhos/cm	CC	10	2510B	05/14/2007 12:40:00 PM
Fluoride (undistilled) (SPLP)	035	mg/l	MRK	0.1	300.0	05/17/2007 04:54:00 AM
Hardness as CaCO3 (SPLP)	34	mg/l	KC	4	2340B	05/24/2007 12:53:00 PM
pH (SPLP)	7.2	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	4.64	---	KC	0.1	20b	05/24/2007 12:53:00 PM
Total Dissolved Solids (SPLP)	247	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	5.1	mg/l	KC	0.5	200.7	05/24/2007 12:53:00 PM
Magnesium as Mg (SPLP)	5.1	mg/l	KC	0.5	200.7	05/24/2007 12:53:00 PM
Potassium as K (SPLP)	4.8	mg/l	KC	0.5	200.7	05/24/2007 12:53:00 PM
Sodium as Na (SPLP)	62	mg/l	KC	0.5	200.7	05/24/2007 12:53:00 PM
Aluminum as Al (SPLP)	0.22	mg/l	KC	0.05	200.7	05/24/2007 12:15:00 AM
Arsenic as As (SPLP)	0.004	mg/l	BH	0.001	200.8	04/27/2007 11:04:00 PM
Barium as Ba (SPLP)	0.14	mg/l	BH	0.005	200.8	04/27/2007 11:04:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/24/2007 12:15:00 AM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/27/2007 11:04:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/27/2007 11:04:00 PM
Copper as Cu (SPLP)	0.004	mg/l	BH	0.001	200.8	04/27/2007 11:04:00 PM
Iron as Fe (SPLP)	0.30	mg/l	KC	0.01	200.7	05/24/2007 12:15:00 AM
Iron as Fe (Total, SPLP)	0.42	mg/l	BH	0.01	200.7	05/09/2007 03:43:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/27/2007 11:04:00 PM
Manganese as Mn (SPLP)	0.011	mg/l	BH	0.005	200.8	04/27/2007 11:04:00 PM
Mercury as Hg (SPLP)	0.00004 B	mg/l	BH	0.00001	200.8	05/09/2007 06:10:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 12:15:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 11:04:00 PM
Selenium as Se (SPLP)	0.009	mg/l	BH	0.001	200.8	04/27/2007 11:04:00 PM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	05/01/2007 12:18:00 PM
Vanadium as V (SPLP)	0.01	mg/l	BH	0.01	200.8	04/27/2007 11:04:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110091-4
Sample Name: SHOB-04, 15-20
Sample Date/Time: 10/28/2006
Collected by: JOHN ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.10	mg/l	KC	0.01	200.7	05/24/2007 12:15:00 AM
SPLP Extraction Date	6697	---	LL	---	1312	04/18/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	---	KC	---	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110091-7
Sample Name: SHOB-04, 30-35
Sample Date/Time: 10/28/2006
Collected by: JOHN ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	17	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	49	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	40	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/17/2007 06:56:00 AM
Electrical Conductivity (SPLP)	344	umhos/cm	CC	10	2510B	05/14/2007 12:40:00 PM
Fluoride (undistilled) (SPLP)	0.29	mg/l	MRK	0.1	300.0	05/17/2007 06:56:00 AM
Hardness as CaCO3 (SPLP)	26	mg/l	KC	4	2340B	05/24/2007 12:58:00 PM
pH (SPLP)	6.6	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	4.70	---	KC	0.1	20b	05/24/2007 12:58:00 PM
Total Dissolved Solids (SPLP)	228	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	3.6	mg/l	KC	0.5	200.7	05/24/2007 12:58:00 PM
Magnesium as Mg (SPLP)	4.1	mg/l	KC	0.5	200.7	05/24/2007 12:58:00 PM
Potassium as K (SPLP)	5.3	mg/l	KC	0.5	200.7	05/24/2007 12:58:00 PM
Sodium as Na (SPLP)	55	mg/l	KC	0.5	200.7	05/24/2007 12:58:00 PM
Aluminum as Al (SPLP)	0.50	mg/l	KC	0.05	200.7	05/24/2007 12:34:00 AM
Arsenic as As (SPLP)	0.005	mg/l	BH	0.001	200.8	04/27/2007 11:31:00 PM
Barium as Ba (SPLP)	0.15	mg/l	BH	0.005	200.8	04/27/2007 11:31:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/24/2007 12:34:00 AM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/27/2007 11:31:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/27/2007 11:31:00 PM
Copper as Cu (SPLP)	0.003	mg/l	BH	0.001	200.8	04/27/2007 11:31:00 PM
Iron as Fe (SPLP)	0.72	mg/l	KC	0.01	200.7	05/24/2007 12:34:00 AM
Iron as Fe (Total, SPLP)	1.55	mg/l	BH	0.01	200.7	05/09/2007 03:57:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/27/2007 11:31:00 PM
Manganese as Mn (SPLP)	0.076	mg/l	BH	0.005	200.8	04/27/2007 11:31:00 PM
Mercury as Hg (SPLP)	0.00003 JB	mg/l	BH	0.00001	200.8	05/09/2007 06:20:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 12:34:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 11:31:00 PM
Selenium as Se (SPLP)	0.007	mg/l	BH	0.001	200.8	04/27/2007 11:31:00 PM
Uranium as U (SPLP)	0.001	mg/l	BH	0.001	200.8	05/01/2007 12:22:00 PM
Vanadium as V (SPLP)	0.01	mg/l	BH	0.01	200.8	04/27/2007 11:31:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110091-7
Sample Name: SHOB-04, 30-35
Sample Date/Time: 10/28/2006
Collected by: JOHN ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.11	mg/l	KC	0.01	200.7	05/24/2007 12:34:00 AM
SPLP Extraction Date	6697	---	LL	---	1312	04/18/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	---	KC	---	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110028-10
Sample Name: SHOB-05, 10-15
Sample Date/Time: 10/29/2006 12:00:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	5	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	68	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	56	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/17/2007 08:27:00 AM
Electrical Conductivity (SPLP)	1420	umhos/cm	CC	10	2510B	05/14/2007 12:40:00 PM
Fluoride (undistilled) (SPLP)	0.44	mg/l	MRK	0.1	300.0	05/17/2007 08:27:00 AM
Hardness as CaCO3 (SPLP)	760	mg/l	KC	4	2340B	05/24/2007 01:14:00 PM
pH (SPLP)	7.2	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	0.57	---	KC	0.1	20b	05/24/2007 01:14:00 PM
Total Dissolved Solids (SPLP)	1150	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	6	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	204	mg/l	KC	0.5	200.7	05/24/2007 01:14:00 PM
Magnesium as Mg (SPLP)	60	mg/l	KC	0.5	200.7	05/24/2007 01:14:00 PM
Potassium as K (SPLP)	5.8	mg/l	KC	0.5	200.7	05/24/2007 01:14:00 PM
Sodium as Na (SPLP)	36	mg/l	KC	0.5	200.7	05/24/2007 01:14:00 PM
Aluminum as Al (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 12:56:00 AM
Arsenic as As (SPLP)	0.001	mg/l	BH	0.001	200.8	04/28/2007 12:01:00 AM
Barium as Ba (SPLP)	0.11	mg/l	BH	0.005	200.8	04/28/2007 12:01:00 AM
Boron as B (SPLP)	0.6	mg/l	KC	0.1	200.7	05/24/2007 12:56:00 AM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/28/2007 12:01:00 AM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/28/2007 12:01:00 AM
Copper as Cu (SPLP)	0.004	mg/l	BH	0.001	200.8	04/28/2007 12:01:00 AM
Iron as Fe (SPLP)	0.01	mg/l	KC	0.01	200.7	05/24/2007 12:56:00 AM
Iron as Fe (Total, SPLP)	0.03 B	mg/l	BH	0.01	200.7	05/09/2007 04:16:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/28/2007 12:01:00 AM
Manganese as Mn (SPLP)	0.017	mg/l	BH	0.005	200.8	04/28/2007 12:01:00 AM
Mercury as Hg (SPLP)	0.00002 B	mg/l	BH	0.00001	200.8	05/09/2007 06:56:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 12:56:00 AM
Nickel as Ni (SPLP)	0.02	mg/l	BH	0.01	200.8	04/28/2007 12:01:00 AM
Selenium as Se (SPLP)	0.003	mg/l	BH	0.001	200.8	04/28/2007 12:01:00 AM
Uranium as U (SPLP)	0.013	mg/l	BH	0.001	200.8	05/01/2007 12:35:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/28/2007 12:01:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110028-10
Sample Name: SHOB-05, 10-15
Sample Date/Time: 10/29/2006 12:00:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.08	mg/l	KC	0.01	200.7	05/24/2007 12:56:00 AM
SPLP Extraction Date	6697	---	LL	---	1312	04/19/2007 05:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	---	KC	---	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110028-16
Sample Name: SHOB-05, 40-45
Sample Date/Time: 10/29/2006 12:00:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	19	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	43	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	35	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/17/2007 08:58:00 AM
Electrical Conductivity (SPLP)	527	umhos/cm	CC	10	2510B	05/14/2007 12:40:00 PM
Fluoride (undistilled) (SPLP)	0.38	mg/l	MRK	0.1	300.0	05/17/2007 08:58:00 AM
Hardness as CaCO3 (SPLP)	12	mg/l	KC	4	2340B	05/24/2007 01:16:00 PM
pH (SPLP)	6.5	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	12.2	---	KC	0.1	20b	05/24/2007 01:16:00 PM
Total Dissolved Solids (SPLP)	356	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	2.6	mg/l	KC	0.5	200.7	05/24/2007 01:16:00 PM
Strontium as Mg (SPLP)	1.4	mg/l	KC	0.5	200.7	05/24/2007 01:16:00 PM
Potassium as K (SPLP)	3.0	mg/l	KC	0.5	200.7	05/24/2007 01:16:00 PM
Sodium as Na (SPLP)	98	mg/l	KC	0.5	200.7	05/24/2007 01:16:00 PM
Aluminum as Al (SPLP)	0.12	mg/l	KC	0.05	200.7	05/24/2007 01:00:00 AM
Arsenic as As (SPLP)	0.012	mg/l	BH	0.001	200.8	04/28/2007 12:07:00 AM
Barium as Ba (SPLP)	0.14	mg/l	BH	0.005	200.8	04/28/2007 12:07:00 AM
Boron as B (SPLP)	0.3	mg/l	KC	0.1	200.7	05/24/2007 01:00:00 AM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/28/2007 12:07:00 AM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/28/2007 12:07:00 AM
Copper as Cu (SPLP)	0.007	mg/l	BH	0.001	200.8	04/28/2007 12:07:00 AM
Iron as Fe (SPLP)	0.23	mg/l	KC	0.01	200.7	05/24/2007 01:00:00 AM
Iron as Fe (Total, SPLP)	0.37	mg/l	BH	0.01	200.7	05/09/2007 04:20:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/28/2007 12:07:00 AM
Manganese as Mn (SPLP)	0.012	mg/l	BH	0.005	200.8	04/28/2007 12:07:00 AM
Mercury as Hg (SPLP)	0.00008 B	mg/l	BH	0.00001	200.8	05/09/2007 07:01:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 01:00:00 AM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/28/2007 12:07:00 AM
Selenium as Se (SPLP)	0.009	mg/l	BH	0.001	200.8	04/28/2007 12:07:00 AM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	05/01/2007 12:38:00 PM
Vanadium as V (SPLP)	0.04	mg/l	BH	0.01	200.8	04/28/2007 12:07:00 AM

Client: GOLDER ASSOCIATES, INC.
 Project Name: SOUTH HEART OVERBURDEN
 Project No.: 063-2174
 Laboratory No.: 2000110028-16
 Sample Name: SHOB-05, 40-45
 Sample Date/Time: 10/29/2006 12:00:
 Collected by: JOSH ELLIOTT
 Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.06	mg/l	KC	0.01	200.7	05/24/2007 01:00:00 AM
SPLP Extraction Date	6697	---	LL	---	1312	04/19/2007 05:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	---	KC	---	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110028-37
Sample Name: SHOB-07, 10-15
Sample Date/Time: 10/29/2006 12:00:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	14 J	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	34 J	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	28 J	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/17/2007 09:28:00 AM
Electrical Conductivity (SPLP)	808	umhos/cm	CC	10	2510B	05/14/2007 12:40:00 PM
Fluoride (undistilled) (SPLP)	0.50	mg/l	MRK	0.1	300.0	05/17/2007 09:28:00 AM
Hardness as CaCO3 (SPLP)	260	mg/l	KC	4	2340B	05/24/2007 01:18:00 PM
pH (SPLP)	6.5	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	1.85	---	KC	0.1	20b	05/24/2007 01:18:00 PM
Total Dissolved Solids (SPLP)	557	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	61	mg/l	KC	0.5	200.7	05/24/2007 01:18:00 PM
Magnesium as Mg (SPLP)	27	mg/l	KC	0.5	200.7	05/24/2007 01:18:00 PM
Potassium as K (SPLP)	4.7	mg/l	KC	0.5	200.7	05/24/2007 01:18:00 PM
Sodium as Na (SPLP)	69	mg/l	KC	0.5	200.7	05/24/2007 01:18:00 PM
Aluminum as Al (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 01:03:00 AM
Arsenic as As (SPLP)	0.001	mg/l	BH	0.001	200.8	04/28/2007 12:13:00 AM
Barium as Ba (SPLP)	0.14 J	mg/l	BH	0.005	200.8	04/28/2007 12:13:00 AM
Boron as B (SPLP)	0.1	mg/l	KC	0.1	200.7	05/24/2007 01:03:00 AM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/28/2007 12:13:00 AM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/28/2007 12:13:00 AM
Copper as Cu (SPLP)	0.003	mg/l	BH	0.001	200.8	04/28/2007 12:13:00 AM
Iron as Fe (SPLP)	<0.01	mg/l	KC	0.01	200.7	05/24/2007 01:03:00 AM
Iron as Fe (Total, SPLP)	0.02B	mg/l	BH	0.01	200.7	05/09/2007 04:23:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/28/2007 12:13:00 AM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	04/28/2007 12:13:00 AM
Mercury as Hg (SPLP)	0.00003 JB	mg/l	BH	0.00001	200.8	05/09/2007 07:06:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 01:03:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/28/2007 12:13:00 AM
Selenium as Se (SPLP)	0.007	mg/l	BH	0.001	200.8	04/28/2007 12:13:00 AM
Uranium as U (SPLP)	0.011	mg/l	BH	0.001	200.8	05/01/2007 12:39:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/28/2007 12:13:00 AM

or. Analytical Laboratories, Inc.

Client: GOLDER ASSOCIATES, INC.
 Project Name: SOUTH HEART OVERBURDEN
 Project No.: 063-2174
 Laboratory No.: 2000110028-37
 Sample Name: SHOB-07, 10-15
 Sample Date/Time: 10/29/2006 12:00:
 Collected by: JOSH ELLIOTT
 Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.07	mg/l	KC	0.01	200.7	05/24/2007 01:03:00 AM
SPLP Extraction Date	6697	---	LL	---	1312	04/19/2007 05:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	---	KC	---	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110086-6
Sample Name: SHOB-08, 25-30
Sample Date/Time: 10/27/2006 ----
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	15	mg/l	ES	5	305.2	04/27/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	32	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Total as CaCO3 (SPLP)	27	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/12/2007 08:53:00 PM
Electrical Conductivity (SPLP)	406	umhos/cm	CC	10	2510B	05/14/2007 10:55:00 AM
Fluoride (undistilled) (SPLP)	0.46	mg/l	MRK	0.1	300.0	05/12/2007 08:53:00 PM
Hardness as CaCO3 (SPLP)	9	mg/l	KC	4	2340B	05/11/2007 10:52:00 PM
pH (SPLP)	6.5	S.U.	ES	1.0-13.5	150.1	04/27/2007 11:45:00 AM
Sodium Absorption Ratio (SPLP)	10.6	---	KC	0.1	20b	05/11/2007 10:52:00 PM
Total Dissolved Solids (SPLP)	296	mg/l	ES	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/24/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.6	mg/l	KC	0.5	200.7	05/11/2007 10:52:00 PM
Magnesium as Mg (SPLP)	1.1	mg/l	KC	0.5	200.7	05/11/2007 10:52:00 PM
Potassium as K (SPLP)	4.6	mg/l	KC	0.5	200.7	05/11/2007 10:52:00 PM
Sodium as Na (SPLP)	71	mg/l	KC	0.5	200.7	05/11/2007 10:52:00 PM
Aluminum as Al (SPLP)	1.13	mg/l	KC	0.05	200.7	05/23/2007 09:20:00 PM
Arsenic as As (SPLP)	0.014	mg/l	BH	0.001	200.8	04/27/2007 06:55:00 PM
Barium as Ba (SPLP)	0.19 B	mg/l	BH	0.005	200.8	04/27/2007 06:55:00 PM
Boron as B (SPLP)	0.5	mg/l	KC	0.1	200.7	05/23/2007 09:20:00 PM
Cadmium as Cd (SPLP)	0.0003	mg/l	BH	0.0001	200.8	04/27/2007 06:55:00 PM
Chromium as Cr (SPLP)	0.003	mg/l	BH	0.001	200.8	04/27/2007 06:55:00 PM
Copper as Cu (SPLP)	0.013	mg/l	BH	0.001	200.8	04/27/2007 06:55:00 PM
Iron as Fe (SPLP)	0.72	mg/l	KC	0.01	200.7	05/23/2007 09:20:00 PM
Iron as Fe (Total, SPLP)	1.20	mg/l	AH	0.01	200.7	05/02/2007 06:00:00 PM
Lead as Pb (SPLP)	0.005 B	mg/l	BH	0.001	200.8	04/27/2007 06:55:00 PM
Manganese as Mn (SPLP)	0.010	mg/l	BH	0.005	200.8	04/27/2007 06:55:00 PM
Mercury as Hg (SPLP)	0.00016	mg/l	BH	0.00001	200.8	05/09/2007 02:35:00 PM
Molybdenum as Mo (SPLP)	0.08	mg/l	KC	0.05	200.7	05/23/2007 09:20:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/27/2007 06:55:00 PM
Selenium as Se (SPLP)	0.029	mg/l	BH	0.001	200.8	04/27/2007 06:55:00 PM
Uranium as U (SPLP)	0.001	mg/l	BH	0.001	200.8	05/01/2007 10:56:00 AM
Vanadium as V (SPLP)	0.05	mg/l	BH	0.01	200.8	04/27/2007 06:55:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110086-6
Sample Name: SHOB-08, 25-30
Sample Date/Time: 10/27/2006 ----
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.07 B	mg/l	KC	0.01	200.7	05/23/2007 09:20:00 PM
SPLP Extraction Date	6693	----	LL	0.00	1312	04/16/2007 05:07:00 PM
SPLP ICP/AA Batch #/Digest Date	1811	----	GC	----	200.7	04/27/2007 10:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110086-12
Sample Name: SHOB-08, 55-60
Sample Date/Time: 10/27/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	6	mg/l	ES	5	305.2	04/27/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	137	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Total as CaCO3 (SPLP)	113	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/12/2007 09:23:00 PM
Electrical Conductivity (SPLP)	467	umhos/cm	CC	10	2510B	05/14/2007 10:55:00 AM
Fluoride (undistilled) (SPLP)	0.47	mg/l	MRK	0.1	300.0	05/12/2007 09:23:00 PM
Hardness as CaCO3 (SPLP)	<4	mg/l	KC	4	2340B	05/11/2007 10:55:00 PM
pH (SPLP)	7.4	S.U.	ES	1.0-13.5	150.1	04/27/2007 11:45:00 AM
Sodium Absorption Ratio (SPLP)	24.9	—	KC	0.1	20b	05/11/2007 10:55:00 PM
Total Dissolved Solids (SPLP)	327	mg/l	ES	20	160.1	04/24/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/24/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.2	mg/l	KC	0.5	200.7	05/11/2007 10:55:00 PM
Magnesium as Mg (SPLP)	<0.5	mg/l	KC	0.5	200.7	05/11/2007 10:55:00 PM
Potassium as K (SPLP)	3.3	mg/l	KC	0.5	200.7	05/11/2007 10:55:00 PM
Sodium as Na (SPLP)	99	mg/l	KC	0.5	200.7	05/11/2007 10:55:00 PM
Aluminum as Al (SPLP)	0.42 J	mg/l	KC	0.05	200.7	05/23/2007 09:24:00 PM
Arsenic as As (SPLP)	0.039	mg/l	BH	0.001	200.8	04/27/2007 07:01:00 PM
Barium as Ba (SPLP)	0.18 B	mg/l	BH	0.005	200.8	04/27/2007 07:01:00 PM
Boron as B (SPLP)	0.3	mg/l	KC	0.1	200.7	05/23/2007 09:24:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	04/27/2007 07:01:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/27/2007 07:01:00 PM
Copper as Cu (SPLP)	0.018	mg/l	BH	0.001	200.8	04/27/2007 07:01:00 PM
Iron as Fe (SPLP)	0.22	mg/l	KC	0.01	200.7	05/23/2007 09:24:00 PM
Iron as Fe (Total, SPLP)	0.20 B	mg/l	AH	0.01	200.7	05/02/2007 06:03:00 PM
Lead as Pb (SPLP)	0.003 B	mg/l	BH	0.001	200.8	04/27/2007 07:01:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	04/27/2007 07:01:00 PM
Mercury as Hg (SPLP)	0.00021	mg/l	BH	0.00001	200.8	05/09/2007 02:39:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/23/2007 09:24:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 07:01:00 PM
Selenium as Se (SPLP)	0.014	mg/l	BH	0.001	200.8	04/27/2007 07:01:00 PM
Uranium as U (SPLP)	0.005	mg/l	BH	0.001	200.8	05/01/2007 10:58:00 AM
Vanadium as V (SPLP)	0.11	mg/l	BH	0.01	200.8	04/27/2007 07:01:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110086-12
Sample Name: SHOB-08, 55-60
Sample Date/Time: 10/27/2006 ----
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.08 B	mg/l	KC	0.01	200.7	05/23/2007 09:24:00 PM
SPLP Extraction Date	6693	---	LL	0.00	1312	04/16/2007 05:07:00 PM
SPLP ICP/AA Batch #/Digest Date	1811	---	GC	---	200.7	04/27/2007 10:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
 Project Name: SOUTH HEART OVERBURDEN
 Project No.: 063-2174
 Laboratory No.: 2000110090-24
 Sample Name: SHOB-09, 10-15
 Sample Date/Time: 10/28/2006
 Collected by: JOSH ELLIOTT
 Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	216 (9)	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO ₃ (SPLP)	<1 (9)	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO ₃ (SPLP)	0 (9)	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO ₃ (SPLP)	<1 (9)	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/17/2007 02:22:00 AM
Electrical Conductivity (SPLP)	3600 (9)	umhos/cm	CC	10	2510B	05/16/2007 04:10:00 PM
Fluoride (undistilled) (SPLP)	0.90	mg/l	MRK	0.1	300.0	05/17/2007 02:22:00 AM
Hardness as CaCO ₃ (SPLP)	1540	mg/l	KC	4	2340B	05/30/2007 03:16:00 PM
pH (SPLP)	3.0 (9)	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	2.75	—	KC	0.1	20b	05/30/2007 03:16:00 PM
Total Dissolved Solids (SPLP)	3130 (9)	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<14	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	404	mg/l	KC	0.5	200.7	05/31/2007 03:16:00 PM
Magnesium as Mg (SPLP)	128	mg/l	KC	0.5	200.7	05/24/2007 01:56:00 PM
Potassium as K (SPLP)	4.6	mg/l	KC	0.5	200.7	05/24/2007 01:56:00 PM
Sodium as Na (SPLP)	248	mg/l	KC	0.5	200.7	05/24/2007 01:56:00 PM
Aluminum as Al (SPLP)	7.02	mg/l	KC	0.05	200.7	05/31/2007 03:16:00 PM
Arsenic as As (SPLP)	0.011	mg/l	BH	0.001	200.8	04/27/2007 10:41:00 PM
Barium as Ba (SPLP)	0.081B	mg/l	BH	0.005	200.8	04/27/2007 10:41:00 PM
Boron as B (SPLP)	1.3 J	mg/l	KC	0.1	200.7	05/31/2007 03:16:00 PM
Cadmium as Cd (SPLP)	0.0018	mg/l	BH	0.0001	200.8	04/27/2007 10:41:00 PM
Chromium as Cr (SPLP)	0.003	mg/l	BH	0.001	200.8	04/27/2007 10:41:00 PM
Copper as Cu (SPLP)	0.009	mg/l	BH	0.001	200.8	04/27/2007 10:41:00 PM
Iron as Fe (SPLP)	0.75	mg/l	KC	0.01	200.7	05/31/2007 03:16:00 PM
Iron as Fe (Total, SPLP)	0.88	mg/l	BH	0.01	200.7	05/09/2007 03:28:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/27/2007 10:41:00 PM
Manganese as Mn (SPLP)	2.35	mg/l	BH	0.005	200.8	04/27/2007 10:41:00 PM
Mercury as Hg (SPLP)	0.00002 B	mg/l	BH	0.00001	200.8	05/09/2007 05:52:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/31/2007 03:16:00 PM
Nickel as Ni (SPLP)	0.07	mg/l	BH	0.01	200.8	04/27/2007 10:41:00 PM
Selenium as Se (SPLP)	0.003	mg/l	BH	0.001	200.8	04/27/2007 10:41:00 PM
Uranium as U (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/01/2007 12:07:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 10:41:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110090-24
Sample Name: SHOB-09, 10-15
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.45	mg/l	KC	0.01	200.7	05/31/2007 03:16:00 PM
SPLP Extraction Date	6697	---	LL	---	1312	04/18/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	---	KC	---	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110090-27
Sample Name: SHOB-09, 25-30
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	5	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	49	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	40	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/17/2007 02:53:00 AM
Electrical Conductivity (SPLP)	427	umhos/cm	CC	10	2510B	05/14/2007 12:40:00 PM
Fluoride (undistilled) (SPLP)	0.40	mg/l	MRK	0.1	300.0	05/17/2007 02:53:00 AM
Hardness as CaCO3 (SPLP)	15	mg/l	KC	4	2340B	05/24/2007 01:58:00 PM
pH (SPLP)	7.4	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	8.94	---	KC	0.1	20b	05/24/2007 01:58:00 PM
Total Dissolved Solids (SPLP)	308	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<6	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	3.1	mg/l	KC	0.5	200.7	05/24/2007 01:58:00 PM
Magnesium as Mg (SPLP)	1.8	mg/l	KC	0.5	200.7	05/24/2007 01:58:00 PM
Potassium as K (SPLP)	3.8	mg/l	KC	0.5	200.7	05/24/2007 01:58:00 PM
Sodium as Na (SPLP)	80	mg/l	KC	0.5	200.7	05/24/2007 01:58:00 PM
Aluminum as Al (SPLP)	1.40	mg/l	KC	0.05	200.7	05/31/2007 03:20:00 PM
Arsenic as As (SPLP)	0.012	mg/l	BH	0.001	200.8	04/27/2007 10:47:00 PM
Barium as Ba (SPLP)	0.37	mg/l	BH	0.005	200.8	04/27/2007 10:47:00 PM
Boron as B (SPLP)	2.3	mg/l	KC	0.1	200.7	05/31/2007 03:20:00 PM
Cadmium as Cd (SPLP)	0.0003	mg/l	BH	0.0001	200.8	04/27/2007 10:47:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/27/2007 10:47:00 PM
Copper as Cu (SPLP)	0.007	mg/l	BH	0.001	200.8	04/27/2007 10:47:00 PM
Iron as Fe (SPLP)	0.62	mg/l	KC	0.01	200.7	05/31/2007 03:20:00 PM
Iron as Fe (Total, SPLP)	0.84	mg/l	BH	0.01	200.7	05/09/2007 03:32:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/27/2007 10:47:00 PM
Manganese as Mn (SPLP)	0.007	mg/l	BH	0.005	200.8	04/27/2007 10:47:00 PM
Mercury as Hg (SPLP)	0.00006 B	mg/l	BH	0.00001	200.8	05/09/2007 05:56:00 PM
Molybdenum as Mo (SPLP)	0.08	mg/l	KC	0.05	200.7	05/31/2007 03:20:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 10:47:00 PM
Selenium as Se (SPLP)	0.013	mg/l	BH	0.001	200.8	04/27/2007 10:47:00 PM
Uranium as U (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/01/2007 12:13:00 PM
Vanadium as V (SPLP)	0.01	mg/l	BH	0.01	200.8	04/27/2007 10:47:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110090-27
Sample Name: SHOB-09, 25-30
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.08	mg/l	KC	0.01	200.7	05/31/2007 03:20:00 PM
SPLP Extraction Date	6697	---	LL	---	1312	04/18/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	---	KC	---	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110090-29
Sample Name: SHOB-09, 35-40
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	9	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	83	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	68	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/17/2007 03:54:00 AM
Electrical Conductivity (SPLP)	388	umhos/cm	CC	10	2510B	05/14/2007 12:40:00 PM
Fluoride (undistilled) (SPLP)	0.41	mg/l	MRK	0.1	300.0	05/17/2007 03:54:00 AM
Hardness as CaCO3 (SPLP)	13	mg/l	KC	4	2340B	05/24/2007 12:48:00 PM
pH (SPLP)	7.1	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	8.77	---	KC	0.1	20b	05/24/2007 12:48:00 PM
Total Dissolved Solids (SPLP)	290	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	2.8	mg/l	KC	0.5	200.7	05/24/2007 12:48:00 PM
Magnesium as Mg (SPLP)	1.4	mg/l	KC	0.5	200.7	05/24/2007 12:48:00 PM
Potassium as K (SPLP)	3.9	mg/l	KC	0.5	200.7	05/24/2007 12:48:00 PM
Sodium as Na (SPLP)	72	mg/l	KC	0.5	200.7	05/24/2007 12:48:00 PM
Aluminum as Al (SPLP)	0.29	mg/l	KC	0.05	200.7	05/24/2007 12:08:00 AM
Arsenic as As (SPLP)	0.010	mg/l	BH	0.001	200.8	04/27/2007 10:52:00 PM
Barium as Ba (SPLP)	0.13	mg/l	BH	0.005	200.8	04/27/2007 10:52:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/24/2007 12:08:00 AM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/27/2007 10:52:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/27/2007 10:52:00 PM
Copper as Cu (SPLP)	0.013	mg/l	BH	0.001	200.8	04/27/2007 10:52:00 PM
Iron as Fe (SPLP)	0.59	mg/l	KC	0.01	200.7	05/24/2007 12:08:00 AM
Iron as Fe (Total, SPLP)	1.02	mg/l	BH	0.01	200.7	05/09/2007 03:35:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	04/27/2007 10:52:00 PM
Manganese as Mn (SPLP)	0.058	mg/l	BH	0.005	200.8	04/27/2007 10:52:00 PM
Mercury as Hg (SPLP)	0.00014 B	mg/l	BH	0.00001	200.8	05/09/2007 06:01:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 12:08:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 10:52:00 PM
Selenium as Se (SPLP)	0.007	mg/l	BH	0.001	200.8	04/27/2007 10:52:00 PM
Uranium as U (SPLP)	0.003	mg/l	BH	0.001	200.8	05/01/2007 12:14:00 PM
Vanadium as V (SPLP)	0.02	mg/l	BH	0.01	200.8	04/27/2007 10:52:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110090-29
Sample Name: SHOB-09, 35-40
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.05	mg/l	KC	0.01	200.7	05/24/2007 12:08:00 AM
SPLP Extraction Date	6697	---	LL	---	1312	04/18/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	---	KC	---	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100178-5
Sample Name: SHOB-10 @ 20-25'
Sample Date/Time: 10/12/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	6	mg/l	ES	5	305.2	04/10/2007 08:08:00 AM
Alkalinity Bicarb. as HCO ₃ (SPLP)	36	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Carbonate as CO ₃ (SPLP)	0	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Total as CaCO ₃ (SPLP)	29	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	04/09/2007 03:20:00 PM
Electrical Conductivity (SPLP)	819	umhos/cm	TD	10	2510B	04/09/2007 10:30:00 AM
Fluoride (undistilled) (SPLP)	0.27	mg/l	MRK	0.1	300.0	04/09/2007 03:20:00 PM
Hardness as CaCO ₃ (SPLP)	250	mg/l	BH	4	2340B	04/11/2007 01:12:00 PM
pH (SPLP)	6.6	S.U.	TD	1.0-13.5	150.1	04/09/2007 12:30:00 PM
Sodium Absorption Ratio (SPLP)	1.19	---	BH	0.1	20b	04/11/2007 01:12:00 PM
Total Dissolved Solids (SPLP)	551	mg/l	ES	20	160.1	04/09/2006 12:35:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/09/2007 12:35:00 PM
Calcium as Ca (SPLP)	64	mg/l	BH	0.5	200.7	04/11/2007 01:12:00 PM
Magnesium as Mg (SPLP)	21	mg/l	BH	0.5	200.7	04/11/2007 01:12:00 PM
Potassium as K (SPLP)	3.8	mg/l	BH	0.5	200.7	04/11/2007 01:12:00 PM
Sodium as Na (SPLP)	43	mg/l	BH	0.5	200.7	04/11/2007 01:12:00 PM
Aluminum as Al (SPLP)	<0.05	mg/l	BH	0.05	200.7	05/15/2007 02:04:00 PM
Arsenic as As (SPLP)	<0.001	mg/l	AH	0.001	200.8	04/10/2007 11:06:00 AM
Barium as Ba (SPLP)	0.16 B	mg/l	AH	0.005	200.8	04/10/2007 11:06:00 AM
Boron as B (SPLP)	0.1 B	mg/l	BH	0.1	200.7	04/10/2007 04:41:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	AH	0.0001	200.8	04/10/2007 11:06:00 AM
Chromium as Cr (SPLP)	<0.001	mg/l	AH	0.001	200.8	04/10/2007 11:06:00 AM
Copper as Cu (SPLP)	0.003 B	mg/l	AH	0.001	200.8	04/10/2007 11:06:00 AM
Iron as Fe (SPLP)	0.03 B	mg/l	BH	0.01	200.7	05/15/2007 02:04:00 PM
Iron as Fe (Total, SPLP)	0.06 B	mg/l	BH	0.01	200.7	04/13/2007 02:52:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	AH	0.001	200.8	04/10/2007 11:06:00 AM
Manganese as Mn (SPLP)	<0.005	mg/l	AH	0.005	200.8	04/10/2007 11:06:00 AM
Mercury as Hg (SPLP)	<0.00001UJ	mg/l	BH	0.00001	200.8	04/24/2007 07:42:50 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.8	04/10/2007 11:06:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	AH	0.01	200.8	04/10/2007 11:06:00 AM
Selenium as Se (SPLP)	0.002	mg/l	AH	0.001	200.8	04/10/2007 11:06:00 AM
Uranium as U (SPLP)	0.001	mg/l	AH	0.001	200.8	04/12/2007 10:05:00 AM
Radium as V (SPLP)	<0.01	mg/l	AH	0.01	200.8	04/10/2007 11:06:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100178-5
Sample Name: SHOB-10 @ 20-25'
Sample Date/Time: 10/12/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.17 B	mg/l	AH	0.01	200.8	04/10/2007 11:06:00 AM
SPLP Extraction Date	6677	---	LL	---	1312	04/05/2007 05:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1770	---	GC	---	200.7	04/11/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100178-11
Sample Name: SHOB-10 @ 50-55'
Sample Date/Time: 10/12/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/10/2007 08:08:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	71	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	58	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	04/09/2007 03:51:00 PM
Electrical Conductivity (SPLP)	269	umhos/cm	TD	10	2510B	04/09/2007 10:30:00 AM
Fluoride (undistilled) (SPLP)	0.60	mg/l	MRK	0.1	300.0	04/09/2007 03:51:00 PM
Hardness as CaCO3 (SPLP)	9	mg/l	BH	4	2340B	04/11/2007 01:24:00 PM
pH (SPLP)	8.2	S.U.	TD	1.0-13.5	150.1	04/09/2007 12:30:00 PM
Sodium Absorption Ratio (SPLP)	6.01	---	BH	0.1	20b	04/11/2007 01:24:00 PM
Total Dissolved Solids (SPLP)	317	mg/l	ES	20	160.1	04/09/2006 12:35:00 PM
Total Suspended Solids (SPLP)	10	mg/l	ES	4	160.2	04/09/2007 12:35:00 PM
Calcium as Ca (SPLP)	1.4 B	mg/l	BH	0.5	200.7	04/11/2007 01:24:00 PM
Magnesium as Mg (SPLP)	1.4	mg/l	BH	0.5	200.7	04/11/2007 01:24:00 PM
Potassium as K (SPLP)	1.9	mg/l	BH	0.5	200.7	04/11/2007 01:24:00 PM
Sodium as Na (SPLP)	42	mg/l	BH	0.5	200.7	04/11/2007 01:24:00 PM
Aluminum as Al (SPLP)	2.79	mg/l	BH	0.05	200.7	05/15/2007 02:26:00 PM
Arsenic as As (SPLP)	0.16	mg/l	AH	0.001	200.8	04/10/2007 11:40:00 AM
Barium as Ba (SPLP)	0.21 B	mg/l	AH	0.005	200.8	04/10/2007 11:40:00 AM
Boron as B (SPLP)	0.3 B	mg/l	BH	0.1	200.7	04/10/2007 05:00:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	AH	0.0001	200.8	04/10/2007 11:40:00 AM
Chromium as Cr (SPLP)	0.003	mg/l	AH	0.001	200.8	04/10/2007 11:40:00 AM
Copper as Cu (SPLP)	0.007 B	mg/l	AH	0.001	200.8	04/10/2007 11:40:00 AM
Iron as Fe (SPLP)	0.88	mg/l	BH	0.01	200.7	05/15/2007 02:26:00 PM
Iron as Fe (Total, SPLP)	0.99	mg/l	BH	0.01	200.7	04/13/2007 03:11:00 PM
Lead as Pb (SPLP)	0.002	mg/l	AH	0.001	200.8	04/10/2007 11:40:00 AM
Manganese as Mn (SPLP)	0.007	mg/l	AH	0.005	200.8	04/10/2007 11:40:00 AM
Mercury as Hg (SPLP)	0.00001	mg/l	AH	0.00001	200.8	04/24/2007 08:08:21 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.8	04/10/2007 11:40:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	AH	0.01	200.8	04/10/2007 11:40:00 AM
Selenium as Se (SPLP)	0.002	mg/l	AH	0.001	200.8	04/10/2007 11:40:00 AM
Uranium as U (SPLP)	0.001	mg/l	AH	0.001	200.8	04/12/2007 10:18:00 AM
Vanadium as V (SPLP)	0.02	mg/l	AH	0.01	200.8	04/10/2007 11:40:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100178-11
Sample Name: SHOB-10 @ 50-55'
Sample Date/Time: 10/12/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.15 B	mg/l	BH	0.01	200.8	04/10/2007 11:40:00 AM
SPLP Extraction Date	6677	---	LL	---	1312	04/04/2007 06:50:00 PM
SPLP ICP/AA Batch #/Digest Date	1770	---	GC	---	200.7	04/11/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110089-42
Sample Name: SHOB-11, 55-60
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	13	mg/l	ES	5	305.2	04/27/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	73	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Total as CaCO3 (SPLP)	59	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/13/2007 08:32:00 AM
Electrical Conductivity (SPLP)	640	umhos/cm	CC	10	2510B	05/14/2007 10:55:00 AM
Fluoride (undistilled) (SPLP)	0.58	mg/l	MRK	0.1	300.0	05/13/2007 08:32:00 AM
Hardness as CaCO3 (SPLP)	13	mg/l	KC	4	2340B	05/12/2007 12:43:00 AM
pH (SPLP)	7.1	S.U.	ES	1.0-13.5	150.1	04/27/2007 11:45:00 AM
Sodium Absorption Ratio (SPLP)	15.2	---	KC	0.1	20b	05/12/2007 12:43:00 AM
Total Dissolved Solids (SPLP)	475	mg/l	ES	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/24/2007 08:00:00 AM
Calcium as Ca (SPLP)	2.9	mg/l	KC	0.5	200.7	05/12/2007 12:43:00 AM
Magnesium as Mg (SPLP)	1.3	mg/l	KC	0.5	200.7	05/12/2007 12:43:00 AM
Potassium as K (SPLP)	4.6	mg/l	KC	0.5	200.7	05/12/2007 12:43:00 AM
Sodium as Na (SPLP)	124	mg/l	KC	0.5	200.7	05/12/2007 12:43:00 AM
Aluminum as Al (SPLP)	0.34	mg/l	KC	0.05	200.7	05/23/2007 11:08:00 PM
Arsenic as As (SPLP)	0.022	mg/l	BH	0.001	200.8	04/27/2007 09:29:00 PM
Barium as Ba (SPLP)	0.22 B	mg/l	BH	0.005	200.8	04/27/2007 09:29:00 PM
Boron as B (SPLP)	0.5	mg/l	KC	0.1	200.7	05/23/2007 11:08:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	04/27/2007 09:29:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/27/2007 09:29:00 PM
Copper as Cu (SPLP)	0.014	mg/l	BH	0.001	200.8	04/27/2007 09:29:00 PM
Iron as Fe (SPLP)	0.43	mg/l	KC	0.01	200.7	05/23/2007 11:08:00 PM
Iron as Fe (Total, SPLP)	0.73	mg/l	AH	0.01	200.7	05/02/2007 07:32:00 PM
Lead as Pb (SPLP)	0.003 B	mg/l	BH	0.001	200.8	04/27/2007 09:29:00 PM
Manganese as Mn (SPLP)	0.029	mg/l	BH	0.005	200.8	04/27/2007 09:29:00 PM
Mercury as Hg (SPLP)	0.0004	ug/l	BH	0.00001	200.8	05/09/2007 04:54:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/23/2007 11:08:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/27/2007 09:29:00 PM
Selenium as Se (SPLP)	0.010	mg/l	BH	0.001	200.8	04/27/2007 09:29:00 PM
Uranium as U (SPLP)	0.003	mg/l	BH	0.001	200.8	05/01/2007 11:44:00 AM
Vanadium as V (SPLP)	0.09	mg/l	BH	0.01	200.8	04/27/2007 09:29:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110089-42
Sample Name: SHOB-11, 55-60
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.22 B	mg/l	KC	0.01	200.7	05/23/2007 11:08:00 PM
SPLP Extraction Date	6693	---	LL	---	1312	04/17/2007 04:20:00 PM
SPLP ICP/AA Batch #/Digest Date	1811	---	GC	---	200.7	04/27/2007 10:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100195-6
Sample Name: SHOB-12, 25-30'
Sample Date/Time: 10/16/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/20/2007 07:28:02 PM
Alkalinity Bicarb. as HCO3 (SPLP)	93	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	76	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Chloride as Cl (SPLP)	2 B	mg/l	MRK	1	300.0	04/19/2007 01:35:00 AM
Electrical Conductivity (SPLP)	340	umhos/cm	TD	10	2510B	04/20/2007 02:00:00 PM
Fluoride (undistilled) (SPLP)	0.47 B	mg/l	MRK	0.1	300.0	04/19/2007 01:35:00 AM
Hardness as CaCO3 (SPLP)	18	mg/l	AH	4	2340B	04/26/2007 06:25:00 PM
pH (SPLP)	7.9	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	5.74	---	BH	0.1	20b	05/18/2007 01:10:00 PM
Total Dissolved Solids (SPLP)	227	mg/l	ES	20	160.1	04/13/2007 09:35:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/13/2007 09:35:00 AM
Calcium as Ca (SPLP)	3.6 B	mg/l	AH	0.5	200.7	04/26/2007 06:25:00 PM
Magnesium as Mg (SPLP)	2.2	mg/l	AH	0.5	200.7	04/26/2007 06:25:00 PM
Potassium as K (SPLP)	4.9	mg/l	KC	0.5	200.7	04/30/2007 06:52:00 PM
Sodium as Na (SPLP)	56	mg/l	BH	0.5	200.7	05/18/2007 01:10:00 PM
Aluminum as Al (SPLP)	0.27	mg/l	AH	0.05	200.7	04/26/2007 06:25:00 PM
Arsenic as As (SPLP)	0.003	mg/l	BH	0.001	200.8	04/18/2007 07:17:00 PM
Barium as Ba (SPLP)	0.24 B	mg/l	BH	0.005	200.8	04/18/2007 07:17:00 PM
Boron as B (SPLP)	0.4	mg/l	AH	0.1	200.7	04/26/2007 06:25:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/18/2007 07:17:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/18/2007 07:17:00 PM
Copper as Cu (SPLP)	0.009	mg/l	BH	0.001	200.8	04/18/2007 07:17:00 PM
Iron as Fe (SPLP)	0.16	mg/l	AH	0.01	200.7	04/26/2007 06:25:00 PM
Iron as Fe (Total, SPLP)	0.26	mg/l	KC	0.01	200.7	04/24/2007 04:00:00 PM
Lead as Pb (SPLP)	0.003	mg/l	BH	0.001	200.8	04/18/2007 07:17:00 PM
Manganese as Mn (SPLP)	0.046	mg/l	BH	0.005	200.8	04/18/2007 07:17:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/24/2007 11:24:55 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 06:25:00 PM
Nickel as Ni (SPLP)	0.02	mg/l	BH	0.01	200.8	04/18/2007 07:17:00 PM
Selenium as Se (SPLP)	0.008	mg/l	BH	0.001	200.8	04/18/2007 07:17:00 PM
Uranium as U (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 01:23:00 PM
Vanadium as V (SPLP)	0.01	mg/l	BH	0.01	200.7	04/18/2007 07:17:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100195-6
Sample Name: SHOB-12, 25-30'
Sample Date/Time: 10/16/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.07 B	mg/l	AH	0.01	200.8	04/26/2007 06:25:00 PM
SPLP Extraction Date	6681	----	LL	----	1312	04/09/2007 05:35:00 PM
SPLP ICP/AA Batch #/Digest Date	1802	----	KC	----	200.7	04/20/2007 03:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100195-10
Sample Name: SHOB-12, 45-50'
Sample Date/Time: 10/16/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/20/2007 07:28:02 PM
Alkalinity Bicarb. as HCO3 (SPLP)	119	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	97	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Chloride as Cl (SPLP)	2B	mg/l	MRK	1	300.0	04/19/2007 03:07:00 AM
Electrical Conductivity (SPLP)	367	umhos/cm	TD	10	2510B	04/20/2007 02:00:00 PM
Fluoride (undistilled) (SPLP)	0.30 B	mg/l	MRK	0.1	300.0	04/19/2007 03:07:00 AM
Hardness as CaCO3 (SPLP)	11	mg/l	AH	4	2340B	04/26/2007 06:29:00 PM
pH (SPLP)	7.2	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	8.42	---	BH	0.1	20b	05/18/2007 01:14:00 PM
Total Dissolved Solids (SPLP)	236	mg/l	ES	20	160.1	04/13/2007 09:35:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/13/2007 09:35:00 AM
Calcium as Ca (SPLP)	2.7 B	mg/l	AH	0.5	200.7	04/26/2007 06:29:00 PM
Magnesium as Mg (SPLP)	1.1	mg/l	AH	0.5	200.7	04/26/2007 06:29:00 PM
Potassium as K (SPLP)	3.7	mg/l	KC	0.5	200.7	04/30/2007 06:54:00 PM
Sodium as Na (SPLP)	65	mg/l	BH	0.5	200.7	05/18/2007 01:14:00 PM
Aluminum as Al (SPLP)	0.38	mg/l	AH	0.05	200.7	04/26/2007 06:29:00 PM
Arsenic as As (SPLP)	0.032	mg/l	BH	0.001	200.8	04/18/2007 07:23:00 PM
Barium as Ba (SPLP)	0.14 B	mg/l	BH	0.005	200.8	04/18/2007 07:23:00 PM
Boron as B (SPLP)	0.4	mg/l	AH	0.1	200.7	04/26/2007 06:29:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/18/2007 07:23:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/18/2007 07:23:00 PM
Copper as Cu (SPLP)	0.036	mg/l	BH	0.001	200.8	04/18/2007 07:23:00 PM
Iron as Fe (SPLP)	0.29	mg/l	AH	0.01	200.7	04/26/2007 06:29:00 PM
Iron as Fe (Total, SPLP)	0.43	mg/l	KC	0.01	200.7	04/24/2007 04:00:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	04/18/2007 07:23:00 PM
Manganese as Mn (SPLP)	0.021	mg/l	BH	0.005	200.8	04/18/2007 07:23:00 PM
Mercury as Hg (SPLP)	0.00001	mg/l	BH	0.00001	200.8	04/24/2007 11:29:35 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 06:29:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/18/2007 07:23:00 PM
Selenium as Se (SPLP)	0.010	mg/l	BH	0.001	200.8	04/18/2007 07:23:00 PM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 01:25:00 PM
Vanadium as V (SPLP)	0.15	mg/l	BH	0.01	200.8	04/18/2007 07:23:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100195-10
Sample Name: SHOB-12, 45-50'
Sample Date/Time: 10/16/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.12 B	mg/l	AH	0.01	200.7	04/26/2007 06:29:00 PM
SPLP Extraction Date	6681	----	LL	----	1312	04/09/2007 05:35:00 PM
SPLP ICP/AA Batch #/Digest Date	1802	----	KC	----	200.7	04/20/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110090-14
Sample Name: SHOB-13, 10-15
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	17	mg/l	ES	5	305.2	04/27/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	31	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Total as CaCO3 (SPLP)	25	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/13/2007 10:33:00 AM
Electrical Conductivity (SPLP)	351	umhos/cm	TD	10	2510B	05/14/2007 10:55:00 AM
Fluoride (undistilled) (SPLP)	0.36	mg/l	MRK	0.1	300.0	05/13/2007 10:33:00 AM
Hardness as CaCO3 (SPLP)	38	mg/l	KC	4	2340B	05/12/2007 12:58:00 AM
pH (SPLP)	6.8	S.U.	ES	1.0-13.5	150.1	04/27/2007 11:45:00 AM
Sodium Absorption Ratio (SPLP)	3.46	---	KC	0.1	20b	05/12/2007 12:58:00 AM
Total Dissolved Solids (SPLP)	260	mg/l	ES	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/24/2007 08:00:00 AM
Calcium as Ca (SPLP)	7.5	mg/l	KC	0.5	200.7	05/12/2007 12:58:00 AM
Magnesium as Mg (SPLP)	4.7	mg/l	KC	0.5	200.7	05/12/2007 12:58:00 AM
Potassium as K (SPLP)	2.8	mg/l	KC	0.5	200.7	05/12/2007 12:58:00 AM
Sodium as Na (SPLP)	49	mg/l	KC	0.5	200.7	05/12/2007 12:58:00 AM
Aluminum as Al (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/23/2007 11:23:00 PM
Arsenic as As (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/27/2007 09:53:00 PM
Barium as Ba (SPLP)	0.12 B	mg/l	BH	0.005	200.8	04/27/2007 09:53:00 PM
Boron as B (SPLP)	<0.1	mg/l	KC	0.1	200.7	05/23/2007 11:23:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/27/2007 09:53:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/27/2007 09:53:00 PM
Copper as Cu (SPLP)	0.001 B	mg/l	BH	0.001	200.8	04/27/2007 09:53:00 PM
Iron as Fe (SPLP)	0.06	mg/l	KC	0.01	200.7	05/23/2007 11:23:00 PM
Iron as Fe (Total, SPLP)	0.40	mg/l	AH	0.01	200.7	05/02/2007 07:47:00 PM
Lead as Pb (SPLP)	0.002 B	mg/l	BH	0.001	200.8	04/27/2007 09:53:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	04/27/2007 09:53:00 PM
Mercury as Hg (SPLP)	0.0001 B	mg/l	BH	0.00001	200.8	05/09/2007 05:13:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/23/2007 11:23:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 09:53:00 PM
Selenium as Se (SPLP)	0.003	mg/l	BH	0.001	200.8	04/27/2007 09:53:00 PM
Uranium as U (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/01/2007 11:56:00 AM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 09:53:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110090-14
Sample Name: SHOB-13, 10-15
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.05 B	mg/l	KC	0.01	200.7	05/23/2007 11:23:00 PM
SPLP Extraction Date	6693	---	LL	---	1312	04/18/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1811	---	GC	---	200.7	04/27/2007 10:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100178-19
Sample Name: SHOB-14 @ 30-35'
Sample Date/Time: 10/12/2006 15:09:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<1	mg/l	RM	1	305.2	08/21/2007 11:20:42 AM
Alkalinity Bicarb. as HCO ₃ (SPLP)	61	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Alkalinity Carbonate as CO ₃ (SPLP)	4	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Alkalinity Total as CaCO ₃ (SPLP)	57	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Chloride as Cl (SPLP)	<1	mg/l	ES	1	300.0	08/25/2007 07:05:00 PM
Electrical Conductivity (SPLP)	205	umhos/cm	LL	10	2510B	08/10/2007 09:05:00 AM
Fluoride (undistilled) (SPLP)	0.36	mg/l	ES	0.1	300.0	08/25/2007 07:05:00 PM
Hardness as CaCO ₃ (SPLP)	12	mg/l	--	4	2340B	08/20/2007 11:34:00 AM
pH (SPLP)	9.2	S.U.	LL	1.0-13.5	---	08/08/2007 03:50:00 PM
Sodium Absorption Ratio (SPLP)	0.30	---	--	0.1	20b	08/20/2007 11:34:00 AM
Total Dissolved Solids (SPLP)	158HT	mg/l	RM	10	2540C	08/16/2007 01:54:00 PM
Total Suspended Solids (SPLP)	<4HT	mg/l	RM	4	2540D	08/16/2007 02:22:00 PM
Calcium as Ca (SPLP)	2.5	mg/l	BH	0.5	200.7	08/20/2007 11:34:00 AM
Magnesium as Mg (SPLP)	1.4	mg/l	BH	0.5	200.7	08/20/2007 11:34:00 AM
Potassium as K (SPLP)	2.4	mg/l	BH	0.5	200.7	08/20/2007 11:34:00 AM
Sodium as Na (SPLP)	34	mg/l	BH	0.5	200.7	08/20/2007 11:34:00 AM
Aluminum as Al (SPLP)	0.33	mg/l	KC	0.05	200.7	08/17/2007 10:01:00 PM
Arsenic as As (SPLP)	0.006	mg/l	DK	0.001	200.8	08/29/2007 11:59:00 AM
Barium as Ba (SPLP)	0.24	mg/l	DK	0.005	200.8	08/29/2007 11:59:00 AM
Boron as B (SPLP)	0.3	mg/l	KC	0.1	200.7	08/17/2007 10:01:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	DK	0.0001	200.8	08/29/2007 11:59:00 AM
Chromium as Cr (SPLP)	0.002	mg/l	DK	0.001	200.8	08/23/2007 07:58:00 PM
Copper as Cu (SPLP)	0.008	mg/l	DK	0.001	200.8	08/23/2007 07:58:00 PM
Iron as Fe (SPLP)	0.16	mg/l	KC	0.01	200.7	08/17/2007 10:01:00 PM
Iron as Fe (Total, SPLP)	0.66	mg/l	BH	0.01	200.7	08/23/2007 01:21:00 PM
Lead as Pb (SPLP)	0.003	mg/l	DK	0.001	200.8	08/29/2007 11:59:00 AM
Manganese as Mn (SPLP)	<0.005	mg/l	KC	0.005	200.7	08/17/2007 10:01:00 PM
Mercury as Hg (SPLP)	0.00002	mg/l	DK	0.00001	200.8	08/27/2007 01:46:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	DK	0.05	200.8	08/29/2007 11:59:00 AM
Nickel as Ni (SPLP)	0.02	mg/l	DK	0.01	200.8	08/23/2007 07:58:00 PM
Selenium as Se (SPLP)	0.002	mg/l	DK	0.001	200.8	08/29/2007 11:59:00 AM
Uranium as U (SPLP)	<0.001	mg/l	DK	0.001	200.8	08/23/2007 07:58:00 PM
Vanadium as V (SPLP)	0.01	mg/l	DK	0.01	200.8	08/23/2007 07:58:00 PM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100178-19
Sample Name: SHOB-14 @ 30-35'
Sample Date/Time: 10/12/2006 15:09:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.09 B	mg/l	DK	0.01	200.8	08/23/2007 07:58:00 PM
SPLP Extraction Date	6750	—	LL	—	—	08/06/2007 04:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1048	—	JH	—	200.7	08/20/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100193-10
Sample Name: SHOB-15, 50-55'
Sample Date/Time: 10/14/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/20/2007 07:28:02 PM
Alkalinity Bicarb. as HCO3 (SPLP)	93	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	76	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Chloride as Cl (SPLP)	2 B	mg/l	MRK	1	300.0	04/18/2007 07:00:00 PM
Electrical Conductivity (SPLP)	418	umhos/cm	TD	10	2510B	04/20/2007 02:00:00 PM
Fluoride (undistilled) (SPLP)	0.72 B	mg/l	MRK	0.1	300.0	04/18/2007 07:00:00 PM
Hardness as CaCO3 (SPLP)	9	mg/l	AH	4	2340B	04/26/2007 05:57:00 PM
pH (SPLP)	7.0	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	11.7	---	BH	0.1	20b	05/18/2007 12:22:00 PM
Total Dissolved Solids (SPLP)	277	mg/l	ES	20	160.1	04/13/2007 09:35:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/13/2007 09:35:00 AM
Calcium as Ca (SPLP)	2.4 B	mg/l	AH	0.5	200.7	04/26/2007 05:57:00 PM
Magnesium as Mg (SPLP)	0.7	mg/l	AH	0.5	200.7	04/26/2007 05:57:00 PM
Potassium as K (SPLP)	2.0	mg/l	KC	0.5	200.7	04/30/2007 06:31:00 PM
Sodium as Na (SPLP)	80	mg/l	BH	0.5	200.7	05/18/2007 12:22:00 PM
Aluminum as Al (SPLP)	1.62	mg/l	AH	0.05	200.7	04/26/2007 05:57:00 PM
Arsenic as As (SPLP)	0.021	mg/l	BH	0.001	200.8	04/18/2007 06:21:00 PM
Barium as Ba (SPLP)	0.20 B	mg/l	BH	0.005	200.8	04/18/2007 06:21:00 PM
Boron as B (SPLP)	0.3	mg/l	AH	0.1	200.7	04/26/2007 05:57:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/18/2007 06:21:00 PM
Chromium as Cr (SPLP)	0.004	mg/l	BH	0.001	200.8	04/18/2007 06:21:00 PM
Copper as Cu (SPLP)	0.017	mg/l	BH	0.001	200.8	04/18/2007 06:21:00 PM
Iron as Fe (SPLP)	0.64	mg/l	AH	0.01	200.7	04/26/2007 05:57:00 PM
Iron as Fe (Total, SPLP)	0.71	mg/l	KC	0.01	200.7	04/24/2007 04:00:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/18/2007 06:21:00 PM
Manganese as Mn (SPLP)	0.012	mg/l	BH	0.005	200.8	04/18/2007 06:21:00 PM
Mercury as Hg (SPLP)	0.00004	mg/l	BH	0.00001	200.8	04/24/2007 10:52:27 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 05:57:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/18/2007 06:21:00 PM
Selenium as Se (SPLP)	0.012	mg/l	BH	0.001	200.8	04/18/2007 06:21:00 PM
Uranium as U (SPLP)	0.003	mg/l	BH	0.001	200.8	04/26/2007 01:06:00 PM
Vanadium as V (SPLP)	0.13	mg/l	BH	0.01	200.8	04/18/2007 06:21:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100193-10
Sample Name: SHOB-15, 50-55'
Sample Date/Time: 10/14/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.11 B	mg/l	AH	0.01	200.7	04/26/2007 05:57:00 PM
SPLP Extraction Date	6681	----	LL	----	1312	04/07/2007 01:15:00 PM
SPLP ICP/AA Batch #/Digest Date	1802	----	KC	----	200.7	04/20/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100193-14
Sample Name: SHOB-15, 75-79'
Sample Date/Time: 10/15/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/20/2007 07:28:02 PM
Alkalinity Bicarb. as HCO3 (SPLP)	36	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	30	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Chloride as Cl (SPLP)	2 B	mg/l	MRK	1	300.0	04/18/2007 07:00:00 PM
Electrical Conductivity (SPLP)	293	umhos/cm	TD	10	2510B	04/20/2007 02:00:00 PM
Fluoride (undistilled) (SPLP)	0.62 B	mg/l	MRK	0.1	300.0	04/18/2007 07:00:00 PM
Hardness as CaCO3 (SPLP)	7	mg/l	AH	4	2340B	04/26/2007 06:01:00 PM
pH (SPLP)	6.7	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	7.57	---	BH	0.1	20b	05/18/2007 12:26:00 PM
Total Dissolved Solids (SPLP)	285	mg/l	ES	20	160.1	04/13/2007 09:35:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/13/2007 09:35:00 AM
Calcium as Ca (SPLP)	1.6 B	mg/l	AH	0.5	200.7	04/26/2007 06:01:00 PM
Magnesium as Mg (SPLP)	0.8	mg/l	AH	0.5	200.7	04/26/2007 06:01:00 PM
Potassium as K (SPLP)	1.4	mg/l	KC	0.5	200.7	04/30/2007 06:38:00 PM
Sodium as Na (SPLP)	47	mg/l	BH	0.5	200.7	05/18/2007 12:26:00 PM
Aluminum as Al (SPLP)	1.90	mg/l	AH	0.05	200.7	04/26/2007 06:01:00 PM
Arsenic as As (SPLP)	0.088	mg/l	BH	0.001	200.8	04/18/2007 06:27:00 PM
Barium as Ba (SPLP)	0.27 B	mg/l	BH	0.005	200.8	04/18/2007 06:27:00 PM
Boron as B (SPLP)	0.3	mg/l	AH	0.1	200.7	04/26/2007 06:01:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/18/2007 06:27:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/18/2007 06:27:00 PM
Copper as Cu (SPLP)	0.007	mg/l	BH	0.001	200.8	04/18/2007 06:27:00 PM
Iron as Fe (SPLP)	0.83	mg/l	AH	0.01	200.7	04/26/2007 06:01:00 PM
Iron as Fe (Total, SPLP)	0.73	mg/l	KC	0.01	200.7	04/24/2007 04:00:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/18/2007 06:27:00 PM
Manganese as Mn (SPLP)	0.012	mg/l	BH	0.005	200.8	04/18/2007 06:27:00 PM
Mercury as Hg (SPLP)	0.00002	mg/l	BH	0.00001	200.8	04/24/2007 10:57:04 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 06:01:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/18/2007 06:27:00 PM
Selenium as Se (SPLP)	0.003	mg/l	BH	0.001	200.8	04/18/2007 06:27:00 PM
Uranium as U (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 01:08:00 PM
Vanadium as V (SPLP)	0.06	mg/l	BH	0.01	200.8	04/18/2007 06:27:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100193-14
Sample Name: SHOB-15, 75-79'
Sample Date/Time: 10/15/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.16 B	mg/l	AH	0.01	200.7	04/26/2007 06:01:00 PM
SPLP Extraction Date	6681	----	LL	---	1312	04/07/2007 01:15:00 PM
SPLP ICP/AA Batch #/Digest Date	1802	----	KC	---	200.7	04/20/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	----	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	----	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100192-5
Sample Name: SHOB-16; 20-25'
Sample Date/Time: 10/13/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/10/2007 08:08:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	46	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	38	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	04/09/2007 06:23:00 PM
Electrical Conductivity (SPLP)	538	umhos/cm	TD	10	2510B	04/09/2007 10:30:00 AM
Fluoride (undistilled) (SPLP)	0.52	mg/l	MRK	0.1	300.0	04/09/2007 06:23:00 PM
Hardness as CaCO3 (SPLP)	86	mg/l	BH	4	2340B	04/12/2007 01:49:00 PM
pH (SPLP)	8.5	S.U.	TD	1.0-13.5	150.1	04/09/2007 12:30:00 PM
Sodium Absorption Ratio (SPLP)	1.61	---	BH	0.1	20b	04/12/2007 01:49:00 PM
Total Dissolved Solids (SPLP)	306	mg/l	ES	20	160.1	04/09/2006 12:35:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/09/2007 12:35:00 PM
Calcium as Ca (SPLP)	26	mg/l	BH	0.5	200.7	04/12/2007 01:49:00 PM
Magnesium as Mg (SPLP)	17	mg/l	BH	0.5	200.7	04/12/2007 01:49:00 PM
Potassium as K (SPLP)	2.0	mg/l	BH	0.5	200.7	04/12/2007 01:49:00 PM
Sodium as Na (SPLP)	43	mg/l	BH	0.5	200.7	04/12/2007 01:49:00 PM
Aluminum as Al (SPLP)	<0.05	mg/l	BH	0.05	200.7	05/15/2007 03:37:00 PM
Arsenic as As (SPLP)	<0.001	mg/l	AH	0.001	200.8	04/10/2007 02:00:00 PM
Barium as Ba (SPLP)	0.28 B	mg/l	AH	0.005	200.8	04/10/2007 02:00:00 PM
Boron as B (SPLP)	0.2 B	mg/l	BH	0.1	200.7	04/10/2007 06:10:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	AH	0.0001	200.8	04/10/2007 02:00:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	AH	0.001	200.8	04/10/2007 02:00:00 PM
Copper as Cu (SPLP)	0.002 B	mg/l	AH	0.001	200.8	04/10/2007 02:00:00 PM
Iron as Fe (SPLP)	<0.01	mg/l	BH	0.01	200.7	05/15/2007 03:37:00 PM
Iron as Fe (Total, SPLP)	0.01 B	mg/l	BH	0.01	200.7	04/13/2007 04:17:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	AH	0.001	200.8	04/10/2007 02:00:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	AH	0.005	200.8	04/10/2007 02:00:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/24/2007 09:34:35 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.8	04/10/2007 02:00:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	AH	0.01	200.8	04/10/2007 02:00:00 PM
Selenium as Se (SPLP)	0.004	mg/l	AH	0.001	200.8	04/10/2007 02:00:00 PM
Uranium as U (SPLP)	<0.001	mg/l	AH	0.001	200.8	04/12/2007 11:02:00 AM
Vanadium as V (SPLP)	<0.01	mg/l	AH	0.01	200.8	04/10/2007 02:00:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100192-5
Sample Name: SHOB-16; 20-25'
Sample Date/Time: 10/13/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.02 B	mg/l	AH	0.01	200.8	04/10/2007 02:00:00 PM
SPLP Extraction Date	6677	---	LL	---	1312	04/04/2007 06:50:00 PM
SPLP ICP/AA Batch #/Digest Date	1770	---	GC	---	200.7	04/11/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100192-17
Sample Name: SHOB-16; 95-100'
Sample Date/Time: 10/13/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/20/2007 07:28:02 PM
Alkalinity Bicarb. as HCO3 (SPLP)	56	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	46	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Chloride as Cl (SPLP)	2 B	mg/l	MRK	1	300.0	04/18/2007 04:28:00 PM
Electrical Conductivity (SPLP)	490	umhos/cm	TD	10	2510B	04/20/2007 02:00:00 PM
Fluoride (undistilled) (SPLP)	0.70 B	mg/l	MRK	0.1	300.0	04/18/2007 04:28:00 PM
Hardness as CaCO3 (SPLP)	8	mg/l	AH	4	2340B	04/26/2007 05:31:00 PM
pH (SPLP)	6.6	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	13.1	----	BH	0.1	20b	05/18/2007 11:36:00 AM
Total Dissolved Solids (SPLP)	312	mg/l	ES	20	160.1	04/13/2007 09:35:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/13/2007 09:35:00 AM
Calcium as Ca (SPLP)	1.3 B	mg/l	AH	0.5	200.7	04/26/2007 05:31:00 PM
Magnesium as Mg (SPLP)	1.2	mg/l	AH	0.5	200.7	04/26/2007 05:31:00 PM
Potassium as K (SPLP)	2.4	mg/l	KC	0.5	200.7	04/30/2007 06:11:00 PM
Sodium as Na (SPLP)	86	mg/l	BH	0.5	200.7	05/18/2007 11:56:00 AM
Aluminum as Al (SPLP)	4.03	mg/l	AH	0.05	200.7	04/26/2007 05:31:00 PM
Arsenic as As (SPLP)	0.022	mg/l	BH	0.001	200.8	04/18/2007 05:57:00 PM
Barium as Ba (SPLP)	0.20 B	mg/l	BH	0.005	200.8	04/18/2007 05:57:00 PM
Boron as B (SPLP)	0.2	mg/l	AH	0.1	200.7	04/26/2007 05:31:00 PM
Cadmium as Cd (SPLP)	0.0003	mg/l	BH	0.0001	200.8	04/18/2007 05:57:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/18/2007 05:57:00 PM
Copper as Cu (SPLP)	0.010	mg/l	BH	0.001	200.8	04/18/2007 05:57:00 PM
Iron as Fe (SPLP)	1.54	mg/l	AH	0.01	200.7	04/26/2007 05:31:00 PM
Iron as Fe (Total, SPLP)	1.29	mg/l	KC	0.01	200.7	04/24/2007 04:00:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/18/2007 05:57:00 PM
Manganese as Mn (SPLP)	0.011	mg/l	BH	0.005	200.8	04/18/2007 05:57:00 PM
Mercury as Hg (SPLP)	<00001	mg/l	BH	0.00001	200.8	04/24/2007 10:22:39 PM
Molybdenum as Mo (SPLP)	0.10	mg/l	AH	0.05	200.7	04/26/2007 05:31:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/18/2007 05:57:00 PM
Selenium as Se (SPLP)	0.017	mg/l	BH	0.001	200.8	04/18/2007 05:57:00 PM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 12:58:00 PM
Vanadium as V (SPLP)	0.02	mg/l	BH	0.01	200.8	04/18/2007 05:57:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100192-17
Sample Name: SHOB-16; 95-100'
Sample Date/Time: 10/13/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.09 B	mg/l	AH	0.01	200.7	04/26/2007 05:31:00 PM
SPLP Extraction Date	6681	---	LL	---	1312	04/07/2007 01:15:00 PM
SPLP ICP/AA Batch #/Digest Date	1802	---	KC	---	200.7	04/20/2007 03:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110087-18
Sample Name: SHOB-17, 85-90
Sample Date/Time: 10/27/2006 ----
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.1	05/04/2007 09:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	46	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	38	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/18/2007 11:44:00 AM
Electrical Conductivity (SPLP)	227	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.46	mg/l	MRK	0.1	300.0	05/18/2007 11:44:00 AM
Hardness as CaCO3 (SPLP)	19	mg/l	KC	4	2340B	05/04/2007 01:18:00 PM
pH (SPLP)	7.2	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:00:00 PM
Sodium Absorption Ratio (SPLP)	4.24	----	KC	0.1	20b	05/04/2007 01:18:00 PM
Total Dissolved Solids (SPLP)	170	mg/l	RM	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/27/2007 08:00:00 AM
Calcium as Ca (SPLP)	3.8	mg/l	KC	0.5	200.7	05/04/2007 01:18:00 PM
Magnesium as Mg (SPLP)	2.2	mg/l	KC	0.5	200.7	05/04/2007 01:18:00 PM
Potassium as K (SPLP)	3.5	mg/l	KC	0.5	200.7	05/04/2007 01:18:00 PM
Sodium as Na (SPLP)	42	mg/l	KC	0.5	200.7	05/04/2007 01:18:00 PM
Aluminum as Al (SPLP)	0.34	mg/l	KC	0.05	200.7	05/04/2007 01:18:00 PM
Arsenic as As (SPLP)	0.003	mg/l	BH	0.001	200.8	05/08/2007 10:45:00 PM
Barium as Ba (SPLP)	0.24	mg/l	BH	0.005	200.8	05/08/2007 10:45:00 PM
Boron as B (SPLP)	0.4B	mg/l	KC	0.1	200.7	05/04/2007 01:18:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	05/08/2007 10:45:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 10:45:00 PM
Copper as Cu (SPLP)	0.004	mg/l	BH	0.001	200.8	05/08/2007 10:45:00 PM
Iron as Fe (SPLP)	0.38	mg/l	KC	0.01	200.7	05/04/2007 01:18:00 PM
Iron as Fe (Total, SPLP)	0.87	mg/l	BH	0.01	200.7	05/09/2007 06:22:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	05/08/2007 10:45:00 PM
Manganese as Mn (SPLP)	0.040	mg/l	BH	0.005	200.8	05/08/2007 10:45:00 PM
Mercury as Hg (SPLP)	0.00002	mg/l	BH	0.00001	200.8	05/09/2007 11:33:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 01:18:00 PM
Nickel as Ni (SPLP)	0.02	mg/l	BH	0.01	200.8	05/08/2007 10:45:00 PM
Selenium as Se (SPLP)	0.004	mg/l	BH	0.001	200.8	05/08/2007 10:45:00 PM
Uranium as U (SPLP)	<0.001	mg/l	AH	0.001	200.8	05/24/2007 12:14:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 10:45:00 PM

Client: GOLDER ASSOCIATES, INC.
 Project Name: SOUTH HEART OVERBURDEN
 Project No.: 063-2174
 Laboratory No.: 2000110087-18
 Sample Name: SHOB-17, 85-90
 Sample Date/Time: 10/27/2006 ----
 Collected by: JOSH ELLIOTT
 Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.11B	mg/l	KC	0.01	200.7	05/04/2007 01:18:00 PM
SPLP Extraction Date	6700	----	LL	----	1312	04/20/2007 04:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1823	----	KC	----	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110089-19
Sample Name: SHOB-18, 50-55
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/27/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	114	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Total as CaCO3 (SPLP)	94	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/13/2007 08:01:00 AM
Electrical Conductivity (SPLP)	734	umhos/cm	CC	10	2510B	05/14/2007 10:55:00 AM
Fluoride (undistilled) (SPLP)	0.53	mg/l	MRK	0.1	300.0	05/13/2007 08:01:00 AM
Hardness as CaCO3 (SPLP)	24	mg/l	KC	4	2340B	05/12/2007 12:39:00 AM
pH (SPLP)	8.0	S.U.	ES	1.0-13.5	150.1	04/27/2007 11:45:00 AM
Sodium Absorption Ratio (SPLP)	13.1	---	KC	0.1	20b	05/12/2007 12:39:00 AM
Total Dissolved Solids (SPLP)	534	mg/l	ES	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/24/2007 08:00:00 AM
Calcium as Ca (SPLP)	4.9	mg/l	KC	0.5	200.7	05/12/2007 12:39:00 AM
Magnesium as Mg (SPLP)	2.9	mg/l	KC	0.5	200.7	05/12/2007 12:39:00 AM
Potassium as K (SPLP)	6.0	mg/l	KC	0.5	200.7	05/12/2007 12:39:00 AM
Sodium as Na (SPLP)	148	mg/l	KC	0.5	200.7	05/12/2007 12:39:00 AM
Aluminum as Al (SPLP)	0.57	mg/l	KC	0.05	200.7	05/23/2007 11:04:00 PM
Arsenic as As (SPLP)	0.005	mg/l	BH	0.001	200.8	04/27/2007 09:24:00 PM
Barium as Ba (SPLP)	0.40 B	mg/l	BH	0.005	200.8	04/27/2007 09:24:00 PM
Boron as B (SPLP)	0.4	mg/l	KC	0.1	200.7	05/23/2007 11:04:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/27/2007 09:24:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/27/2007 09:24:00 PM
Copper as Cu (SPLP)	0.011	mg/l	BH	0.001	200.8	04/27/2007 09:24:00 PM
Iron as Fe (SPLP)	0.51	mg/l	KC	0.01	200.7	05/23/2007 11:04:00 PM
Iron as Fe (Total, SPLP)	1.55	mg/l	AH	0.01	200.7	05/02/2007 07:28:00 PM
Lead as Pb (SPLP)	0.002 B	mg/l	BH	0.001	200.8	04/27/2007 09:24:00 PM
Manganese as Mn (SPLP)	0.049	mg/l	BH	0.005	200.8	04/27/2007 09:24:00 PM
Mercury as Hg (SPLP)	0.00003 B	ug/l	BH	0.00001	200.8	05/09/2007 04:50:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/23/2007 11:04:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/27/2007 09:24:00 PM
Selenium as Se (SPLP)	0.005	mg/l	BH	0.001	200.8	04/27/2007 09:24:00 PM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	05/01/2007 11:42:00 AM
Vanadium as V (SPLP)	0.01	mg/l	BH	0.01	200.8	04/27/2007 09:24:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110089-19
Sample Name: SHOB-18, 50-55
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.03B	mg/l	KC	0.01	200.7	05/23/2007 11:04:00 PM
SPLP Extraction Date	6693	---	LL	---	1312	04/17/2007 04:20:00 PM
SPLP ICP/AA Batch #/Digest Date	1811	---	GC	---	200.7	04/27/2007 10:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110089-52
Sample Name: SHOB-19, 30-35
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	24	mg/l	ES	5	305.2	04/27/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	19	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Total as CaCO3 (SPLP)	15	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/13/2007 09:33:00 AM
Electrical Conductivity (SPLP)	485	umhos/cm	CC	10	2510B	05/14/2007 10:55:00 AM
Fluoride (undistilled) (SPLP)	0.50	mg/l	MRK	0.1	300.0	05/13/2007 09:33:00 AM
Hardness as CaCO3 (SPLP)	12	mg/l	KC	4	2340B	05/12/2007 12:50:00 AM
pH (SPLP)	6.4	S.U.	ES	1.0-13.5	150.1	04/27/2007 11:45:00 AM
Sodium Absorption Ratio (SPLP)	11.2	—	KC	0.1	20b	05/12/2007 12:50:00 AM
Total Dissolved Solids (SPLP)	439	mg/l	ES	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/24/2007 08:00:00 AM
Calcium as Ca (SPLP)	2.4	mg/l	KC	0.5	200.7	05/12/2007 12:50:00 AM
Magnesium as Mg (SPLP)	1.5	mg/l	KC	0.5	200.7	05/12/2007 12:50:00 AM
Potassium as K (SPLP)	2.8	mg/l	KC	0.5	200.7	05/12/2007 12:50:00 AM
Sodium as Na (SPLP)	90	mg/l	KC	0.5	200.7	05/12/2007 12:50:00 AM
Aluminum as Al (SPLP)	0.58	mg/l	KC	0.05	200.7	05/23/2007 11:16:00 PM
Arsenic as As (SPLP)	0.007	mg/l	BH	0.001	200.8	04/27/2007 09:41:00 PM
Barium as Ba (SPLP)	0.22B	mg/l	BH	0.005	200.8	04/27/2007 09:41:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/23/2007 11:16:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	04/27/2007 09:41:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/27/2007 09:41:00 PM
Copper as Cu (SPLP)	0.015	mg/l	BH	0.001	200.8	04/27/2007 09:41:00 PM
Iron as Fe (SPLP)	0.60	mg/l	KC	0.01	200.7	05/23/2007 11:16:00 PM
Iron as Fe (Total, SPLP)	2.00	mg/l	AH	0.01	200.7	05/02/2007 07:39:00 PM
Lead as Pb (SPLP)	0.003B	mg/l	BH	0.001	200.8	04/27/2007 09:41:00 PM
Manganese as Mn (SPLP)	0.041	mg/l	BH	0.005	200.8	04/27/2007 09:41:00 PM
Mercury as Hg (SPLP)	0.010	ug/l	BH	0.00001	200.8	05/09/2007 05:04:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/23/2007 11:16:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 09:41:00 PM
Selenium as Se (SPLP)	0.013	mg/l	BH	0.001	200.8	04/27/2007 09:41:00 PM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	05/01/2007 11:53:00 AM
Vanadium as V (SPLP)	0.01	mg/l	BH	0.01	200.8	04/27/2007 09:41:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110089-52
Sample Name: SHOB-19, 30-35
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.22B	mg/l	KC	0.01	200.7	05/23/2007 11:16:00 PM
SPLP Extraction Date	6693	---	LL	---	1312	04/18/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1811	---	GC	---	200.7	04/27/2007 10:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110090-7
Sample Name: SHOB-20, 30-35
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	5	mg/l	ES	5	305.2	04/27/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	144	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Total as CaCO3 (SPLP)	118	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/13/2007 10:03:00 AM
Electrical Conductivity (SPLP)	517	umhos/cm	TD	10	2510B	05/14/2007 10:55:00 AM
Fluoride (undistilled) (SPLP)	0.59	mg/l	MRK	0.1	300.0	05/13/2007 10:03:00 AM
Hardness as CaCO3 (SPLP)	10	mg/l	KC	4	2340B	05/12/2007 12:54:00 AM
pH (SPLP)	7.3	S.U.	ES	1.0-13.5	150.1	04/27/2007 11:45:00 AM
Sodium Absorption Ratio (SPLP)	14.1	---	KC	0.1	20b	05/12/2007 12:54:00 AM
Total Dissolved Solids (SPLP)	408	mg/l	ES	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/24/2007 08:00:00 AM
Calcium as Ca (SPLP)	2.0	mg/l	KC	0.5	200.7	05/12/2007 12:54:00 AM
Magnesium as Mg (SPLP)	1.1	mg/l	KC	0.5	200.7	05/12/2007 12:54:00 AM
Potassium as K (SPLP)	4.9	mg/l	KC	0.5	200.7	05/12/2007 12:54:00 AM
Sodium as Na (SPLP)	100	mg/l	KC	0.5	200.7	05/12/2007 12:54:00 AM
Aluminum as Al (SPLP)	0.43	mg/l	KC	0.05	200.7	05/23/2007 11:19:00 PM
Arsenic as As (SPLP)	0.010	mg/l	BH	0.001	200.8	04/27/2007 09:47:00 PM
Barium as Ba (SPLP)	0.21 B	mg/l	BH	0.005	200.8	04/27/2007 09:47:00 PM
Boron as B (SPLP)	0.4	mg/l	KC	0.1	200.7	05/23/2007 11:19:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	04/27/2007 09:47:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/27/2007 09:47:00 PM
Copper as Cu (SPLP)	0.008 B	mg/l	BH	0.001	200.8	04/27/2007 09:47:00 PM
Iron as Fe (SPLP)	0.87	mg/l	KC	0.01	200.7	05/23/2007 11:19:00 PM
Iron as Fe (Total, SPLP)	1.23	mg/l	AH	0.01	200.7	05/02/2007 07:43:00 PM
Lead as Pb (SPLP)	0.002 B	mg/l	BH	0.001	200.8	04/27/2007 09:47:00 PM
Manganese as Mn (SPLP)	0.048	mg/l	BH	0.005	200.8	04/27/2007 09:47:00 PM
Mercury as Hg (SPLP)	0.00044	mg/l	BH	0.00001	200.8	05/09/2007 05:08:00 PM
Molybdenum as Mo (SPLP)	0.06	mg/l	KC	0.05	200.7	05/23/2007 11:19:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 09:47:00 PM
Selenium as Se (SPLP)	0.012	mg/l	BH	0.001	200.8	04/27/2007 09:47:00 PM
Uranium as U (SPLP)	0.005	mg/l	BH	0.001	200.8	05/01/2007 11:55:00 AM
Vanadium as V (SPLP)	0.03	mg/l	BH	0.01	200.8	04/27/2007 09:47:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110090-7
Sample Name: SHOB-20, 30-35
Sample Date/Time: 10/28/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.12 B	mg/l	KC	0.01	200.7	05/23/2007 11:19:00 PM
SPLP Extraction Date	6693	---	LL	---	1312	04/18/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1811	---	GC	---	200.7	04/27/2007 10:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100193-22
Sample Name: SHOB-21, 25-30'
Sample Date/Time: 10/15/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/20/2007 07:28:02 PM
Alkalinity Bicarb. as HCO3 (SPLP)	93	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	76	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Chloride as Cl (SPLP)	2 B	mg/l	MRK	1	300.0	04/18/2007 11:03:00 PM
Electrical Conductivity (SPLP)	406	umhos/cm	TD	10	2510B	04/20/2007 02:00:00 PM
Fluoride (undistilled) (SPLP)	0.37 B	mg/l	MRK	0.1	300.0	04/18/2007 11:03:00 PM
Hardness as CaCO3 (SPLP)	19	mg/l	AH	4	2340B	04/26/2007 06:05:00 PM
pH (SPLP)	7.9	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	6.57	---	BH	0.1	20b	05/18/2007 12:29:00 PM
Total Dissolved Solids (SPLP)	267	mg/l	ES	20	160.1	04/13/2007 09:35:00 AM
Total Suspended Solids (SPLP)	4	mg/l	ES	4	160.2	04/13/2007 09:35:00 AM
Calcium as Ca (SPLP)	4.2 B	mg/l	AH	0.5	200.7	04/26/2007 06:05:00 PM
Magnesium as Mg (SPLP)	2.1	mg/l	AH	0.5	200.7	04/26/2007 06:05:00 PM
Potassium as K (SPLP)	1.7	mg/l	KC	0.5	200.7	04/30/2007 06:11:00 PM
Sodium as Na (SPLP)	66	mg/l	BH	0.5	200.7	05/18/2007 12:29:00 PM
Aluminum as Al (SPLP)	3.09	mg/l	AH	0.05	200.7	04/26/2007 06:05:00 PM
Arsenic as As (SPLP)	0.001	mg/l	BH	0.001	200.8	04/18/2007 06:47:00 PM
Barium as Ba (SPLP)	0.43 B	mg/l	BH	0.005	200.8	04/18/2007 06:47:00 PM
Boron as B (SPLP)	0.3	mg/l	AH	0.1	200.7	04/26/2007 06:05:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/18/2007 06:47:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/18/2007 06:47:00 PM
Copper as Cu (SPLP)	0.011	mg/l	BH	0.001	200.8	04/18/2007 06:47:00 PM
Iron as Fe (SPLP)	1.85	mg/l	AH	0.01	200.7	04/26/2007 06:05:00 PM
Iron as Fe (Total, SPLP)	1.77	mg/l	KC	0.01	200.7	04/24/2007 04:00:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/18/2007 06:47:00 PM
Manganese as Mn (SPLP)	0.042	mg/l	BH	0.005	200.8	04/18/2007 06:47:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/24/2007 11:01:41 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 06:05:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/18/2007 06:47:00 PM
Selenium as Se (SPLP)	0.003	mg/l	BH	0.001	200.8	04/18/2007 06:47:00 PM
Uranium as U (SPLP)	0.003	mg/l	BH	0.001	200.8	04/26/2007 01:10:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/18/2007 06:47:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100193-22
Sample Name: SHOB-21, 25-30'
Sample Date/Time: 10/15/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.07 B	mg/l	AH	0.01	200.7	04/26/2007 06:05:00 PM
SPLP Extraction Date	6681	----	LL	----	1312	04/07/2007 01:15:00 PM
SPLP ICP/AA Batch #/Digest Date	1802	----	KC	----	200.7	04/20/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	----
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	----

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100193-44
Sample Name: SHOB-21; 155-160'
Sample Date/Time: 10/15/2006 13:56:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<1	mg/l	RM	1	305.2	08/21/2007 09:56:02 AM
Alkalinity Bicarb. as HCO ₃ (SPLP)	179	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Alkalinity Carbonate as CO ₃ (SPLP)	21	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Alkalinity Total as CaCO ₃ (SPLP)	181	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Chloride as Cl (SPLP)	<1	mg/l	ES	1	300.0	08/25/2007 07:05:00 PM
Electrical Conductivity (SPLP)	379	umhos/cm	LL	10	2510B	08/10/2007 09:05:00 AM
Fluoride (undistilled) (SPLP)	0.32	mg/l	ES	0.1	300.0	08/25/2007 07:05:00 PM
Hardness as CaCO ₃ (SPLP)	<4	mg/l	BH	4	2340B	08/20/2007 11:46:00 AM
pH (SPLP)	9.4	S.U.	LL	1.0-13.5	150.1	08/08/2007 03:50:00 PM
Sodium Absorption Ratio (SPLP)	20.2	—	BH	0.1	20b	08/20/2007 11:46:00 AM
Total Dissolved Solids (SPLP)	259HT	mg/l	RM	10	2540C	08/16/2007 01:54:00 PM
Total Suspended Solids (SPLP)	<4HT	mg/l	RM	4	2540D	08/16/2007 02:22:00 PM
Calcium as Ca (SPLP)	1.4	mg/l	BH	0.5	200.7	08/20/2007 11:46:00 AM
Magnesium as Mg (SPLP)	<0.5	mg/l	BH	0.5	200.7	08/20/2007 11:46:00 AM
Potassium as K (SPLP)	2.6	mg/l	BH	0.5	200.7	08/20/2007 11:46:00 AM
Sodium as Na (SPLP)	87	mg/l	BH	0.5	200.7	08/20/2007 11:46:00 AM
Aluminum as Al (SPLP)	0.29 J	mg/l	KC	0.05	200.7	08/17/2007 10:23:00 PM
Arsenic as As (SPLP)	0.012	mg/l	DK	0.001	200.8	08/29/2007 12:12:00 PM
Barium as Ba (SPLP)	0.16	mg/l	DK	0.005	200.8	08/29/2007 12:12:00 PM
Boron as B (SPLP)	0.3	mg/l	KC	0.1	200.7	08/17/2007 10:23:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	DK	0.0001	200.8	08/29/2007 12:12:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	DK	0.001	200.8	08/23/2007 08:16:00 PM
Copper as Cu (SPLP)	0.009	mg/l	DK	0.001	200.8	08/23/2007 08:16:00 PM
Iron as Fe (SPLP)	0.24	mg/l	KC	0.01	200.7	08/17/2007 10:23:00 PM
Iron as Fe (Total, SPLP)	0.42	mg/l	KC	0.01	200.7	08/23/2007 01:32:00 PM
Lead as Pb (SPLP)	0.002	mg/l	DK	0.001	200.8	08/29/2007 12:12:00 PM
Manganese as Mn (SPLP)	0.006	mg/l	KC	0.005	200.7	08/17/2007 10:23:00 PM
Mercury as Hg (SPLP)	0.00007 J	mg/l	DK	0.00001	200.8	08/27/2007 02:00:00 PM
Molybdenum as Mo (SPLP)	0.036	mg/l	DK	0.05	200.8	08/29/2007 12:12:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	DK	0.01	200.8	08/23/2007 08:16:00 PM
Selenium as Se (SPLP)	0.010	mg/l	DK	0.001	200.8	08/29/2007 12:12:00 PM
Uranium as U (SPLP)	0.006	mg/l	DK	0.001	200.8	08/23/2007 08:16:00 PM
Vanadium as V (SPLP)	0.03	mg/l	DK	0.01	200.8	08/23/2007 08:16:00 PM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100193-44
Sample Name: SHOB-21; 155-160'
Sample Date/Time: 10/15/2006 13:56:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.08 B	mg/l	DK	0.01	200.8	08/23/2007 08:16:00 PM
SPLP Extraction Date	6750	—	LL	—	1312	08/06/2007 04:20:00 PM
SPLP ICP/AA Batch #/Digest Date	1048	—	JH	—	200.7	08/20/2007 11:00:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100193-56
Sample Name: SHOB-21; 215-220'
Sample Date/Time: 10/15/2006 14:42:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<1	mg/l	RM	1	305.2	08/21/2007 09:56:04 AM
Alkalinity Bicarb. as HCO ₃ (SPLP)	157	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Alkalinity Carbonate as CO ₃ (SPLP)	1	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Alkalinity Total as CaCO ₃ (SPLP)	131	mg/l	LL	1	2320B	08/21/2007 03:50:00 PM
Chloride as Cl (SPLP)	1	mg/l	ES	1	300.0	08/25/2007 07:05:00 PM
Electrical Conductivity (SPLP)	288	umhos/cm	LL	10	2510B	08/10/2007 09:05:00 AM
Fluoride (undistilled) (SPLP)	0.41	mg/l	ES	0.1	300.0	08/25/2007 07:05:00 PM
Hardness as CaCO ₃ (SPLP)	<4	mg/l	BH	4	2340B	08/20/2007 11:53:00 AM
pH (SPLP)	9.8	S.U.	ES	1.0-13.5	150.1	08/08/2007 03:50:00 PM
Sodium Absorption Ratio (SPLP)	17.1	—	BH	0.1	20b	08/20/2007 11:53:00 AM
Total Dissolved Solids (SPLP)	232HT	mg/l	RM	10	2540C	08/16/2007 01:54:00 PM
Total Suspended Solids (SPLP)	<4HT	mg/l	RM	4	2540D	08/16/2007 02:22:00 PM
Calcium as Ca (SPLP)	1.1	mg/l	BH	0.5	200.7	08/20/2007 11:53:00 AM
Magnesium as Mg (SPLP)	<0.5	mg/l	BH	0.5	200.7	08/20/2007 11:53:00 AM
Potassium as K (SPLP)	1.5	mg/l	BH	0.5	200.7	08/20/2007 11:53:00 AM
Sodium as Na (SPLP)	65	mg/l	BH	0.5	200.7	08/20/2007 11:53:00 AM
Aluminum as Al (SPLP)	0.84	mg/l	KC	0.05	200.7	08/17/2007 10:38:00 PM
Arsenic as As (SPLP)	0.028	mg/l	DK	0.001	200.8	08/29/2007 12:39:00 PM
Barium as Ba (SPLP)	0.14	mg/l	DK	0.005	200.8	08/29/2007 12:39:00 PM
Boron as B (SPLP)	0.5	mg/l	KC	0.1	200.7	08/17/2007 10:38:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	DK	0.0001	200.8	08/29/2007 12:39:00 PM
Chromium as Cr (SPLP)	0.004	mg/l	DK	0.001	200.8	08/23/2007 08:51:00 PM
Copper as Cu (SPLP)	0.014	mg/l	DK	0.001	200.8	08/23/2007 08:51:00 PM
Iron as Fe (SPLP)	0.51	mg/l	KC	0.01	200.7	08/17/2007 10:38:00 PM
Iron as Fe (Total, SPLP)	2.14	mg/l	BH	0.01	200.7	08/23/2007 01:51:00 PM
Lead as Pb (SPLP)	0.006	mg/l	DK	0.001	200.8	08/29/2007 12:39:00 PM
Manganese as Mn (SPLP)	0.008	mg/l	KC	0.005	200.7	08/17/2007 10:38:00 PM
Mercury as Hg (SPLP)	0.00006	mg/l	DK	0.00001	200.8	08/27/2007 02:27:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	DK	0.05	200.8	08/29/2007 12:39:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	DK	0.01	200.8	08/23/2007 08:51:00 PM
Selenium as Se (SPLP)	0.007	mg/l	DK	0.001	200.8	08/29/2007 12:39:00 PM
Uranium as U (SPLP)	0.001	mg/l	DK	0.001	200.8	08/23/2007 08:51:00 PM
Vanadium as V (SPLP)	0.06	mg/l	DK	0.01	200.8	08/23/2007 08:51:00 PM

Client: GREENHILL ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100193-56
Sample Name: SHOB-21; 215-220'
Sample Date/Time: 10/15/2006 14:42:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.05 B	mg/l	DK	0.01	200.8	08/23/2007 08:51:00 PM
SPLP Extraction Date	6750	—	LL	—	1312	08/06/2007 04:20:00 PM
SPLP ICP/AA Batch #/Digest Date	1048	—	JH	—	200.7	08/20/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110028-49
Sample Name: SHOB-22, 15-20
Sample Date/Time: 10/29/2006 12:00:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	10	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	40	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	33	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/17/2007 12:00:00 PM
Electrical Conductivity (SPLP)	150	umhos/cm	CC	10	2510B	05/14/2007 12:40:00 PM
Fluoride (undistilled) (SPLP)	0.39	mg/l	MRK	0.1	300.0	05/17/2007 12:00:00 PM
Hardness as CaCO3 (SPLP)	26	mg/l	KC	4	2340B	05/24/2007 01:23:00 PM
pH (SPLP)	6.6	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	1.53	---	KC	0.1	20b	05/24/2007 01:23:00 PM
Total Dissolved Solids (SPLP)	120	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	4.9	mg/l	KC	0.5	200.7	05/24/2007 01:23:00 PM
Magnesium as Mg (SPLP)	3.4	mg/l	KC	0.5	200.7	05/24/2007 01:23:00 PM
Potassium as K (SPLP)	2.9	mg/l	KC	0.5	200.7	05/24/2007 01:23:00 PM
Sodium as Na (SPLP)	18	mg/l	KC	0.5	200.7	05/24/2007 01:23:00 PM
Aluminum as Al (SPLP)	0.60	mg/l	KC	0.05	200.7	05/24/2007 01:22:00 AM
Arsenic as As (SPLP)	0.001	mg/l	BH	0.001	200.8	04/28/2007 12:39:00 AM
Barium as Ba (SPLP)	0.12	mg/l	BH	0.005	200.8	04/28/2007 12:39:00 AM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/24/2007 01:22:00 AM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/28/2007 12:39:00 AM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/28/2007 12:39:00 AM
Copper as Cu (SPLP)	0.003	mg/l	BH	0.001	200.8	04/28/2007 12:39:00 AM
Iron as Fe (SPLP)	0.61	mg/l	KC	0.01	200.7	05/24/2007 01:22:00 AM
Iron as Fe (Total, SPLP)	1.20	mg/l	BH	0.01	200.7	05/09/2007 04:31:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/28/2007 12:39:00 AM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	04/28/2007 12:39:00 AM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	05/09/2007 07:15:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 01:22:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/28/2007 12:39:00 AM
Selenium as Se (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/28/2007 12:39:00 AM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	05/01/2007 12:43:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/28/2007 12:39:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110028-49
Sample Name: SHOB-22, 15-20
Sample Date/Time: 10/29/2006 12:00:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.12	mg/l	KC	0.01	200.7	05/24/2007 01:22:00 AM
SPLP Extraction Date	6697	---	LL	---	1312	04/19/2007 05:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	---	KC	---	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110028-56
Sample Name: SHOB-22, 65-70
Sample Date/Time: 10/29/2006 12:00:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<5	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO ₃ (SPLP)	148	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO ₃ (SPLP)	3	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO ₃ (SPLP)	127	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/17/2007 10:29:00 AM
Electrical Conductivity (SPLP)	307	umhos/cm	CC	10	2510B	05/14/2007 12:40:00 PM
Fluoride (undistilled) (SPLP)	0.61	mg/l	MRK	0.1	300.0	05/17/2007 10:29:00 AM
Hardness as CaCO ₃ (SPLP)	4	mg/l	KC	4	2340B	05/24/2007 01:27:00 PM
pH (SPLP)	8.8	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	15.2	---	KC	0.1	20b	05/24/2007 01:27:00 PM
Total Dissolved Solids (SPLP)	264	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<5	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	0.7	mg/l	KC	0.5	200.7	05/24/2007 01:27:00 PM
Magnesium as Mg (SPLP)	0.5	mg/l	KC	0.5	200.7	05/24/2007 01:27:00 PM
Potassium as K (SPLP)	1.9	mg/l	KC	0.5	200.7	05/24/2007 01:27:00 PM
Sodium as Na (SPLP)	68	mg/l	KC	0.5	200.7	05/24/2007 01:27:00 PM
Aluminum as Al (SPLP)	0.81	mg/l	KC	0.05	200.7	05/24/2007 01:29:00 AM
Arsenic as As (SPLP)	0.023	mg/l	BH	0.001	200.8	04/28/2007 12:51:00 AM
Barium as Ba (SPLP)	0.19	mg/l	BH	0.005	200.8	04/28/2007 12:51:00 AM
Boron as B (SPLP)	0.4	mg/l	KC	0.1	200.7	05/24/2007 01:29:00 AM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/28/2007 12:51:00 AM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/28/2007 12:51:00 AM
Copper as Cu (SPLP)	0.007	mg/l	BH	0.001	200.8	04/28/2007 12:51:00 AM
Iron as Fe (SPLP)	0.60	mg/l	KC	0.01	200.7	05/24/2007 01:29:00 AM
Iron as Fe (Total, SPLP)	1.22	mg/l	BH	0.01	200.7	05/09/2007 04:45:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	04/28/2007 12:51:00 AM
Manganese as Mn (SPLP)	0.009	mg/l	BH	0.005	200.8	04/28/2007 12:51:00 AM
Mercury as Hg (SPLP)	0.00009 B	mg/l	BH	0.00001	200.8	05/09/2007 07:36:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 01:29:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/28/2007 12:51:00 AM
Selenium as Se (SPLP)	0.009	mg/l	BH	0.001	200.8	04/28/2007 12:51:00 AM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	05/01/2007 12:47:00 PM
Vanadium as V (SPLP)	0.04	mg/l	BH	0.01	200.8	04/28/2007 12:51:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110028-56
Sample Name: SHOB-22, 65-70
Sample Date/Time: 10/29/2006 12:00:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.05	mg/l	KC	0.01	200.7	05/24/2007 01:29:00 AM
SPLP Extraction Date	6697	---	LL	---	1312	04/19/2007 05:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	---	KC	---	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110029-2
Sample Name: SHOB-23, 5-10
Sample Date/Time: 10/29/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	10	mg/l	ES	5	305.2	05/04/2007 09:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	6	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	5	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/17/2007 08:02:00 PM
Electrical Conductivity (SPLP)	1120	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.57	mg/l	MRK	0.1	300.0	05/17/2007 08:02:00 PM
Hardness as CaCO3 (SPLP)	510	mg/l	KC	4	2340B	05/04/2007 12:25:00 PM
pH (SPLP)	6.1	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:00:00 PM
Sodium Absorption Ratio (SPLP)	1.16	----	CK	0.1	20b	05/04/2007 12:25:00 PM
Total Dissolved Solids (SPLP)	840	mg/l	RM	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/27/2007 08:00:00 AM
Calcium as Ca (SPLP)	118	mg/l	KC	0.5	200.7	05/04/2007 12:25:00 PM
Magnesium as Mg (SPLP)	51	mg/l	KC	0.5	200.7	05/04/2007 12:25:00 PM
Potassium as K (SPLP)	2.8	mg/l	KC	0.5	200.7	05/04/2007 12:25:00 PM
Sodium as Na (SPLP)	60	mg/l	KC	0.5	200.7	05/04/2007 12:25:00 PM
Aluminum as Al (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 12:25:00 PM
Arsenic as As (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 09:25:00 PM
Barium as Ba (SPLP)	0.11	mg/l	BH	0.005	200.8	05/08/2007 09:25:00 PM
Boron as B (SPLP)	0.2 B	mg/l	KC	0.1	200.7	05/04/2007 12:25:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	05/08/2007 09:25:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 09:25:00 PM
Copper as Cu (SPLP)	0.004	mg/l	BH	0.001	200.8	05/08/2007 09:25:00 PM
Iron as Fe (SPLP)	<0.01	mg/l	KC	0.01	200.7	05/04/2007 12:25:00 PM
Iron as Fe (Total, SPLP)	<0.01	mg/l	BH	0.01	200.7	05/09/2007 05:46:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 09:25:00 PM
Manganese as Mn (SPLP)	0.006	mg/l	BH	0.005	200.8	05/08/2007 09:25:00 PM
Mercury as Hg (SPLP)	0.00002	mg/l	BH	0.00001	200.8	05/09/2007 10:20:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 12:25:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	05/08/2007 09:25:00 PM
Selenium as Se (SPLP)	0.003	mg/l	BH	0.001	200.8	05/08/2007 09:25:00 PM
Uranium as U (SPLP)	<0.001	mg/l	AH	0.001	200.8	05/24/2007 11:50:00 AM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 09:25:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110029-2
Sample Name: SHOB-23, 5-10
Sample Date/Time: 10/29/2006 ---
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.08 B	mg/l	KC	0.01	200.7	05/04/2007 12:25:00 PM
SPLP Extraction Date	6700	---	LL	---	1312	04/23/2007 12:00:00 AM
SPLP ICP/AA Batch #/Digest Date	1823	---	KC	---	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110029-13
Sample Name: SHOB-23, 60-65
Sample Date/Time: 10/29/2006 ----
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	12	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	96	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	78	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/17/2007 01:01:00 PM
Electrical Conductivity (SPLP)	363	umhos/cm	CC	10	2510B	05/14/2007 12:40:00 PM
Fluoride (undistilled) (SPLP)	0.45	mg/l	MRK	0.1	300.0	05/17/2007 01:01:00 PM
Hardness as CaCO3 (SPLP)	5	mg/l	KC	4	2340B	05/24/2007 01:34:00 PM
pH (SPLP)	7.1	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	15.2	---	KC	0.1	20b	05/24/2007 01:34:00 PM
Total Dissolved Solids (SPLP)	248	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.1	mg/l	KC	0.5	200.7	05/24/2007 01:34:00 PM
Magnesium as Mg (SPLP)	0.6	mg/l	KC	0.5	200.7	05/24/2007 01:34:00 PM
Potassium as K (SPLP)	2.3	mg/l	KC	0.5	200.7	05/24/2007 01:34:00 PM
Sodium as Na (SPLP)	80	mg/l	KC	0.5	200.7	05/24/2007 01:34:00 PM
Aluminum as Al (SPLP)	0.30	mg/l	KC	0.05	200.7	05/24/2007 01:33:00 AM
Arsenic as As (SPLP)	0.025	mg/l	BH	0.001	200.8	04/28/2007 12:57:00 AM
Barium as Ba (SPLP)	0.15	mg/l	BH	0.005	200.8	04/28/2007 12:57:00 AM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/24/2007 01:33:00 AM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/28/2007 12:57:00 AM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/28/2007 12:57:00 AM
Copper as Cu (SPLP)	0.013	mg/l	BH	0.001	200.8	04/28/2007 12:57:00 AM
Iron as Fe (SPLP)	0.29	mg/l	KC	0.01	200.7	05/24/2007 01:33:00 AM
Iron as Fe (Total, SPLP)	0.52	mg/l	BH	0.01	200.7	05/09/2007 04:49:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/28/2007 12:57:00 AM
Manganese as Mn (SPLP)	0.009	mg/l	BH	0.005	200.8	04/28/2007 12:57:00 AM
Mercury as Hg (SPLP)	0.00007 B	mg/l	BH	0.00001	200.8	05/09/2007 07:40:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 01:33:00 AM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/28/2007 12:57:00 AM
Selenium as Se (SPLP)	0.011	mg/l	BH	0.001	200.8	04/28/2007 12:57:00 AM
Uranium as U (SPLP)	0.003	mg/l	BH	0.001	200.8	05/01/2007 12:49:00 PM
Vanadium as V (SPLP)	0.07	mg/l	BH	0.01	200.8	04/28/2007 12:57:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110029-13
Sample Name: SHOB-23, 60-65
Sample Date/Time: 10/29/2006 ----
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.05	mg/l	KC	0.01	200.7	05/24/2007 01:33:00 AM
SPLP Extraction Date	6697	---	LL	---	1312	04/19/2007 05:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	---	KC	---	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110029-21
Sample Name: SHOB-24, 10-15
Sample Date/Time: 10/29/2006 ----
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	13	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	43	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	35	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/17/2007 01:31:00 PM
Electrical Conductivity (SPLP)	660	umhos/cm	CC	10	2510B	05/14/2007 12:40:00 PM
Fluoride (undistilled) (SPLP)	0.29	mg/l	MRK	0.1	300.0	05/17/2007 01:31:00 PM
Hardness as CaCO3 (SPLP)	125	mg/l	KC	4	2340B	05/24/2007 01:36:00 PM
pH (SPLP)	6.6	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	2.92	----	KC	0.1	20b	05/24/2007 01:36:00 PM
Total Dissolved Solids (SPLP)	424	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<9	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	27	mg/l	KC	0.5	200.7	05/24/2007 01:36:00 PM
Magnesium as Mg (SPLP)	14	mg/l	KC	0.5	200.7	05/24/2007 01:36:00 PM
Potassium as K (SPLP)	3.8	mg/l	KC	0.5	200.7	05/24/2007 01:36:00 PM
Sodium as Na (SPLP)	75	mg/l	KC	0.5	200.7	05/24/2007 01:36:00 PM
Aluminum as Al (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 01:37:00 AM
Arsenic as As (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/28/2007 01:03:00 AM
Barium as Ba (SPLP)	0.18	mg/l	BH	0.005	200.8	04/28/2007 01:03:00 AM
Boron as B (SPLP)	0.3	mg/l	KC	0.1	200.7	05/24/2007 01:37:00 AM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/28/2007 01:03:00 AM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/28/2007 01:03:00 AM
Copper as Cu (SPLP)	0.004	mg/l	BH	0.001	200.8	04/28/2007 01:03:00 AM
Iron as Fe (SPLP)	<0.01	mg/l	KC	0.01	200.7	05/24/2007 01:37:00 AM
Iron as Fe (Total, SPLP)	0.05 B	mg/l	BH	0.01	200.7	05/09/2007 04:53:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/28/2007 01:03:00 AM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	04/28/2007 01:03:00 AM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	05/09/2007 07:45:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 01:37:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/28/2007 01:03:00 AM
Selenium as Se (SPLP)	0.002	mg/l	BH	0.001	200.8	04/28/2007 01:03:00 AM
Uranium as U (SPLP)	0.005	mg/l	BH	0.001	200.8	05/01/2007 12:51:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/28/2007 01:03:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110029-21
Sample Name: SHOB-24, 10-15
Sample Date/Time: 10/29/2006 ----
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.15	mg/l	KC	0.01	200.7	05/24/2007 01:37:00 AM
SPLP Extraction Date	6697	---	LL	---	1312	04/20/2007 04:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	---	KC	---	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110029-27
Sample Name: SHOB-24, 40-45
Sample Date/Time: 10/29/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/02/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	80	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	6	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	76	mg/l	ES	1	2320B	05/02/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/17/2007 02:02:00 PM
Electrical Conductivity (SPLP)	228 HT	umhos/cm	CC	10	2510B	06/11/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.31	mg/l	MRK	0.1	300.0	05/17/2007 02:02:00 PM
Hardness as CaCO3 (SPLP)	11	mg/l	KC	4	2340B	05/24/2007 01:39:00 PM
pH (SPLP)	9.1	S.U.	ES	1.0-13.5	150.1	05/02/2007 09:20:00 AM
Sodium Absorption Ratio (SPLP)	7.11	---	KC	0.1	20b	05/24/2007 01:39:00 PM
Total Dissolved Solids (SPLP)	153	mg/l	RM	20	160.1	04/26/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<5	mg/l	RM	4	160.2	04/26/2007 08:00:00 AM
Calcium as Ca (SPLP)	2.4	mg/l	KC	0.5	200.7	05/24/2007 01:39:00 PM
Magnesium as Mg (SPLP)	1.2	mg/l	KC	0.5	200.7	05/24/2007 01:39:00 PM
Potassium as K (SPLP)	3.7	mg/l	KC	0.5	200.7	05/24/2007 01:39:00 PM
Sodium as Na (SPLP)	54	mg/l	KC	0.5	200.7	05/24/2007 01:39:00 PM
Aluminum as Al (SPLP)	0.41 J	mg/l	KC	0.05	200.7	05/24/2007 01:40:00 AM
Arsenic as As (SPLP)	0.013	mg/l	BH	0.001	200.8	04/28/2007 01:09:00 AM
Barium as Ba (SPLP)	0.16	mg/l	BH	0.005	200.8	04/28/2007 01:09:00 AM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/24/2007 01:40:00 AM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/28/2007 01:09:00 AM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/28/2007 01:09:00 AM
Copper as Cu (SPLP)	0.008	mg/l	BH	0.001	200.8	04/28/2007 01:09:00 AM
Iron as Fe (SPLP)	0.30J	mg/l	KC	0.01	200.7	05/24/2007 01:40:00 AM
Iron as Fe (Total, SPLP)	0.70	mg/l	BH	0.01	200.7	05/09/2007 04:56:00 PM
Lead as Pb (SPLP)	0.004	mg/l	BH	0.001	200.8	04/28/2007 01:09:00 AM
Manganese as Mn (SPLP)	0.007	mg/l	BH	0.005	200.8	04/28/2007 01:09:00 AM
Mercury as Hg (SPLP)	0.00006 B	mg/l	BH	0.00001	200.8	05/09/2007 07:49:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/24/2007 01:40:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/28/2007 01:09:00 AM
Selenium as Se (SPLP)	0.014	mg/l	BH	0.001	200.8	04/28/2007 01:09:00 AM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	05/01/2007 12:53:00 PM
Vanadium as V (SPLP)	0.05	mg/l	BH	0.01	200.8	04/28/2007 01:09:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110029-27
Sample Name: SHOB-24, 40-45
Sample Date/Time: 10/29/2006 ----
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.03	mg/l	KC	0.01	200.7	05/24/2007 01:40:00 AM
SPLP Extraction Date	6697	----	LL	----	1312	04/20/2007 04:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1821	----	KC	----	200.7	05/02/2007 11:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110029-32
Sample Name: SHOB-24, 80-85
Sample Date/Time: 10/29/2006 14:33:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<1	mg/l	RM	1	305.2	08/21/2007 11:25:40 AM
Alkalinity Bicarb. as HCO ₃ (SPLP)	113	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Alkalinity Carbonate as CO ₃ (SPLP)	<1	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Alkalinity Total as CaCO ₃ (SPLP)	92	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Chloride as Cl (SPLP)	<1	mg/l	ES	1	300.0	08/25/2007 07:05:00 PM
Electrical Conductivity (SPLP)	250	umhos/cm	LL	10	2510B	08/10/2007 09:05:00 AM
Fluoride (undistilled) (SPLP)	1.49	mg/l	ES	0.1	300.0	08/25/2007 07:05:00 PM
Hardness as CaCO ₃ (SPLP)	5	mg/l	BH	4	2340B	08/20/2007 12:22:00 PM
pH (SPLP)	8.6	S.U.	LL	1.0-13.5	150.1	08/08/2007 03:50:00 PM
Sodium Absorption Ratio (SPLP)	9.68	—	BH	0.1	20b	08/20/2007 12:22:00 PM
Total Dissolved Solids (SPLP)	151HT	mg/l	RM	10	2540C	08/16/2007 01:54:00 PM
Total Suspended Solids (SPLP)	<4HT	mg/l	RM	4	2540D	08/16/2007 02:22:00 PM
Calcium as Ca (SPLP)	1.2	mg/l	BH	0.5	200.7	08/20/2007 12:22:00 PM
Magnesium as Mg (SPLP)	0.6	mg/l	BH	0.5	200.7	08/20/2007 12:22:00 PM
Potassium as K (SPLP)	1.9	mg/l	BH	0.5	200.7	08/20/2007 12:22:00 PM
Sodium as Na (SPLP)	52	mg/l	BH	0.5	200.7	08/20/2007 12:22:00 PM
Aluminum as Al (SPLP)	0.29 J	mg/l	KC	0.05	200.7	08/17/2007 11:33:00 PM
Arsenic as As (SPLP)	0.011	mg/l	DK	0.001	200.8	08/29/2007 01:41:00 PM
Barium as Ba (SPLP)	0.28 J	mg/l	DK	0.005	200.8	08/29/2007 01:41:00 PM
Boron as B (SPLP)	0.7	mg/l	KC	0.1	200.7	08/17/2007 11:33:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	DK	0.0001	200.8	08/29/2007 01:41:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	DK	0.001	200.8	08/23/2007 10:15:00 PM
Copper as Cu (SPLP)	0.010	mg/l	DK	0.001	200.8	08/23/2007 10:15:00 PM
Iron as Fe (SPLP)	0.19 J	mg/l	KC	0.01	200.7	08/17/2007 11:33:00 PM
Iron as Fe (Total, SPLP)	0.47J	mg/l	KC	0.01	200.7	08/23/2007 01:25:00 PM
Lead as Pb (SPLP)	0.004	mg/l	DK	0.001	200.8	08/29/2007 01:41:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	KC	0.005	200.7	08/17/2007 11:33:00 PM
Mercury as Hg (SPLP)	0.00003 J	mg/l	DK	0.00001	200.8	08/28/2007 01:14:00 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	DK	0.05	200.8	08/29/2007 01:41:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	DK	0.01	200.8	08/23/2007 10:15:00 PM
Selenium as Se (SPLP)	0.003	mg/l	DK	0.001	200.8	08/29/2007 01:41:00 PM
Uranium as U (SPLP)	<0.001	mg/l	DK	0.001	200.8	08/23/2007 10:15:00 PM
Vanadium as V (SPLP)	0.03	mg/l	DK	0.01	200.8	08/23/2007 10:15:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110029-32
Sample Name: SHOB-24, 80-85
Sample Date/Time: 10/29/2006 14:33:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.11 B J	mg/l	DK	0.01	200.8	08/23/2007 10:15:00 PM
SPLP Extraction Date	6750	—	BH	—	1312	08/07/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1048	—	JH	—	200.7	08/20/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100327-4
Sample Name: SHOB-25, 26-31'
Sample Date/Time: 10/19/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	9	mg/l	ES	5	305.2	04/23/2007 12:55:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	29 J	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	23 J	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	04/26/2007 10:48:00 PM
Electrical Conductivity (SPLP)	178	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.30	mg/l	MRK	0.1	300.0	04/26/2007 10:48:00 PM
Hardness as CaCO3 (SPLP)	46	mg/l	KC	4	2340B	04/30/2007 07:22:00 PM
pH (SPLP)	6.6	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	0.84	---	KC	0.1	20b	05/03/2007 06:16:00 PM
Total Dissolved Solids (SPLP)	131	mg/l	ES	20	160.1	04/18/2007 04:45:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/18/2007 04:44:00 PM
Calcium as Ca (SPLP)	9.9	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Magnesium as Mg (SPLP)	5.1	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Potassium as K (SPLP)	1.9	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Sodium as Na (SPLP)	13	mg/l	KC	0.5	200.7	05/03/2007 06:16:00 PM
Aluminum as Al (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 08:12:00 PM
Arsenic as As (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 05:02:00 PM
Barium as Ba (SPLP)	0.13 J B	mg/l	BH	0.005	200.8	04/26/2007 05:02:00 PM
Boron as B (SPLP)	0.1	mg/l	KC	0.1	200.7	05/03/2007 06:16:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/26/2007 05:02:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 05:02:00 PM
Copper as Cu (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/27/2007 12:29:00 PM
Iron as Fe (SPLP)	0.03	mg/l	KC	0.01	200.7	05/03/2007 06:16:00 PM
Iron as Fe (Total, SPLP)	0.26	mg/l	KC	0.01	200.7	04/24/2007 05:58:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 05:02:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	04/26/2007 05:02:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 01:50:54 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 08:12:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 05:02:00 PM
Selenium as Se (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 05:02:00 PM
Thorium as U (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 02:16:00 PM
Radium as V (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/26/2007 08:12:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100327-4
Sample Name: SHOB-25, 26-31'
Sample Date/Time: 10/19/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.07 B	mg/l	KC	0.01	200.7	05/03/2007 06:18:00 PM
SPLP Extraction Date	6684	---	LL	---	1312	04/10/2007 04:50:00 PM
SPLP ICP/AA Batch #/Digest Date	1803	---	KC	---	200.7	04/20/2007 05:10:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEM
Project No.: 063-2174
Laboratory No.: 2000100345-3
Sample Name: SHOB-26, 10-15'
Sample Date/Time: 10/26/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	6	mg/l	ES	5	305.2	04/23/2007 07:05:00 PM
Alkalinity Bicarb. as HCO ₃ (SPLP)	24	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Carbonate as CO ₃ (SPLP)	0	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Total as CaCO ₃ (SPLP)	20	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/10/2007 09:17:00 PM
Electrical Conductivity (SPLP)	197	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.21	mg/l	MRK	0.1	300.0	05/10/2007 09:17:00 PM
Hardness as CaCO ₃ (SPLP)	71	mg/l	AH	4	2340B	04/27/2007 12:02:00 PM
pH (SPLP)	6.2	S.U.	TD	1.0-13.5	150.1	04/23/2007 08:15:00 AM
Sodium Absorption Ratio (SPLP)	0.10	---	KC	0.1	20b	05/23/2007 10:18:00 PM
Total Dissolved Solids (SPLP)	112	mg/l	RM	20	160.1	04/20/2007 11:50:00 AM
Total Suspended Solids (SPLP)	<4 UJ	mg/l	RM	4	160.2	04/20/2007 11:50:00 AM
Calcium as Ca (SPLP)	12	mg/l	AH	0.5	200.7	04/27/2007 12:02:00 AM
Magnesium as Mg (SPLP)	10	mg/l	AH	0.5	200.7	04/27/2007 12:02:00 AM
Potassium as K (SPLP)	1.2	mg/l	KC	0.5	200.7	04/30/2007 10:07:00 PM
Sodium as Na (SPLP)	2	mg/l	KC	0.5	200.7	05/23/2007 10:18:00 PM
Aluminum as Al (SPLP)	<0.05	mg/l	BH	0.05	200.7	04/27/2007 12:02:00 AM
Arsenic as As (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:32:00 PM
Barium as Ba (SPLP)	0.19 B	mg/l	BH	0.005	200.8	04/26/2007 10:32:00 PM
Boron as B (SPLP)	0.1	mg/l	AH	0.1	200.7	04/27/2007 12:02:00 AM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/26/2007 10:32:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:32:00 PM
Copper as Cu (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:32:00 PM
Iron as Fe (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/27/2007 12:02:00 AM
Iron as Fe (Total, SPLP)	0.2	mg/l	KC	0.01	200.7	04/24/2007 09:44:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:32:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	04/26/2007 10:32:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 04:53:14 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/27/2007 12:02:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 10:32:00 PM
Selenium as Se (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:32:00 PM
Uranium as U (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/01/2007 10:34:00 AM
Vanadium as V (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/27/2007 12:02:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEM
Project No.: 063-2174
Laboratory No.: 2000100345-3
Sample Name: SHOB-26, 10-15'
Sample Date/Time: 10/26/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.09	mg/l	AH	0.01	200.7	04/27/2007 12:02:00 AM
SPLP Extraction Date	6688	---	LL	----	1312	04/13/2007 04:05:00 PM
SPLP ICP/AA Batch #/Digest Date	1804	---	GC	----	200.7	04/23/2007 08:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	----	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	----	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEM
Project No.: 063-2174
Laboratory No.: 2000100345-9
Sample Name: SHOB-26, 40-45'
Sample Date/Time: 10/26/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	14	mg/l	ES	5	305.2	04/23/2007 07:05:00 PM
Alkalinity Bicarb. as HCO ₃ (SPLP)	16	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Carbonate as CO ₃ (SPLP)	0	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Total as CaCO ₃ (SPLP)	13	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/10/2007 06:45:00 PM
Electrical Conductivity (SPLP)	224	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.18	mg/l	MRK	0.1	300.0	05/10/2007 06:45:00 PM
Hardness as CaCO ₃ (SPLP)	61	mg/l	AH	4	2340B	04/27/2007 12:06:00 PM
pH (SPLP)	6.2	S.U.	TD	1.0-13.5	150.1	04/23/2007 08:15:00 AM
Sodium Absorption Ratio (SPLP)	0.67	---	KC	0.1	20b	05/23/2007 08:32:00 PM
Total Dissolved Solids (SPLP)	143	mg/l	RM	20	160.1	04/20/2007 11:50:00 AM
Total Suspended Solids (SPLP)	<4 UJ	mg/l	RM	4	160.2	04/20/2007 11:50:00 AM
Calcium as Ca (SPLP)	15	mg/l	AH	0.5	200.7	04/27/2007 12:06:00 AM
Magnesium as Mg (SPLP)	5.7	mg/l	AH	0.5	200.7	04/27/2007 12:06:00 AM
Potassium as K (SPLP)	2.2	mg/l	KC	0.5	200.7	04/30/2007 10:09:00 PM
Sodium as Na (SPLP)	12	mg/l	KC	0.5	200.7	05/23/2007 08:32:00 PM
Aluminum as Al (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/27/2007 12:06:00 AM
Arsenic as As (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:38:00 PM
Barium as Ba (SPLP)	0.25B	mg/l	BH	0.005	200.8	04/26/2007 10:38:00 PM
Boron as B (SPLP)	0.1	mg/l	AH	0.1	200.7	04/27/2007 12:06:00 AM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/26/2007 10:38:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:38:00 PM
Copper as Cu (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:38:00 PM
Iron as Fe (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/27/2007 12:06:00 AM
Iron as Fe (Total, SPLP)	0.07	mg/l	KC	0.01	200.7	04/24/2007 09:48:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:38:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	04/26/2007 10:38:00 PM
Mercury as Hg (SPLP)	0.00003	mg/l	BH	0.00001	200.8	04/25/2007 04:57:52 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/27/2007 12:06:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 10:38:00 PM
Selenium as Se (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:38:00 PM
Uranium as U (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/01/2007 10:36:00 AM
Vanadium as V (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/27/2007 12:06:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEM
Project No.: 063-2174
Laboratory No.: 2000100345-9
Sample Name: SHOB-26, 40-45'
Sample Date/Time: 10/26/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.10	mg/l	AH	0.01	200.7	04/27/2007 12:06:00 AM
SPLP Extraction Date	6688	----	LL	----	1312	04/13/2007 04:05:00 PM
SPLP ICP/AA Batch #/Digest Date	1804	----	GC	----	200.7	04/23/2007 08:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100344-9
Sample Name: SHOB-27, 40-45'
Sample Date/Time: 10/26/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	13	mg/l	ES	5	305.2	04/23/2007 07:05:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	49	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	40	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/10/2007 03:12:00 PM
Electrical Conductivity (SPLP)	414	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.41	mg/l	MRK	0.1	300.0	05/10/2007 03:12:00 PM
Hardness as CaCO3 (SPLP)	15	mg/l	AH	4	2340B	04/26/2007 11:25:00 PM
pH (SPLP)	6.6	S.U.	TD	1.0-13.5	150.1	04/23/2007 08:15:00 AM
Sodium Absorption Ratio (SPLP)	7.08	---	KC	0.1	20b	05/23/2007 07:52:00 PM
Total Dissolved Solids (SPLP)	253	mg/l	RM	20	160.1	04/20/2007 11:50:00 AM
Total Suspended Solids (SPLP)	<6*	mg/l	RM	4	160.2	04/20/2007 11:50:00 AM
Calcium as Ca (SPLP)	3.4	mg/l	AH	0.5	200.7	04/26/2007 11:25:00 PM
Magnesium as Mg (SPLP)	1.7	mg/l	AH	0.5	200.7	04/26/2007 11:25:00 PM
Potassium as K (SPLP)	3.9	mg/l	KC	0.5	200.7	04/30/2007 09:51:00 PM
Sodium as Na (SPLP)	64	mg/l	KC	0.5	200.7	05/23/2007 07:52:00 PM
Aluminum as Al (SPLP)	0.23	mg/l	AH	0.05	200.7	04/26/2007 11:25:00 PM
Arsenic as As (SPLP)	0.008	mg/l	BH	0.001	200.8	04/26/2007 09:36:00 PM
Barium as Ba (SPLP)	0.21 B	mg/l	BH	0.005	200.8	04/26/2007 09:36:00 PM
Boron as B (SPLP)	0.3	mg/l	AH	0.1	200.7	04/26/2007 11:25:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/26/2007 09:36:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 09:36:00 PM
Copper as Cu (SPLP)	0.005	mg/l	BH	0.001	200.8	04/26/2007 09:36:00 PM
Iron as Fe (SPLP)	0.51	mg/l	AH	0.01	200.7	04/26/2007 11:25:00 PM
Iron as Fe (Total, SPLP)	1.01	mg/l	KC	0.01	200.7	04/24/2007 09:11:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 09:36:00 PM
Manganese as Mn (SPLP)	0.038	mg/l	BH	0.005	200.8	04/26/2007 09:36:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 04:09:32 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 11:25:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 09:36:00 PM
Selenium as Se (SPLP)	0.008	mg/l	BH	0.001	200.8	04/26/2007 09:36:00 PM
Uranium as U (SPLP)	0.003	mg/l	BH	0.001	200.8	05/01/2007 10:21:00 AM
Radium as V (SPLP)	0.02	mg/l	AH	0.01	200.7	04/26/2007 11:25:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100344-9
Sample Name: SHOB-27, 40-45'
Sample Date/Time: 10/26/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.12	mg/l	AH	0.01	200.7	04/26/2007 11:25:00 PM
SPLP Extraction Date	6688	---	LL	---	1312	04/13/2007 04:05:00 PM
SPLP ICP/AA Batch #/Digest Date	1804	---	GC	---	200.7	04/23/2007 08:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100343-42
Sample Name: SHOB-28, 40-45'
Sample Date/Time: 10/25/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	9	mg/l	ES	5	305.2	04/23/2007 07:05:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	13	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	11	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/10/2007 12:10:00 PM
Electrical Conductivity (SPLP)	274	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.21	mg/l	MRK	0.1	300.0	05/10/2007 12:10:00 PM
Hardness as CaCO3 (SPLP)	86	mg/l	AH	4	2340B	04/26/2007 11:06:00 PM
pH (SPLP)	6.2	S.U.	TD	1.0-13.5	150.1	04/23/2007 08:15:00 AM
Sodium Absorption Ratio (SPLP)	0.42	---	KC	0.1	20b	05/23/2007 07:22:00 PM
Total Dissolved Solids (SPLP)	143	mg/l	RM	20	160.1	04/20/2007 11:50:00 AM
Total Suspended Solids (SPLP)	<4*	mg/l	RM	4	160.2	04/20/2007 11:50:00 AM
Calcium as Ca (SPLP)	22	mg/l	AH	0.5	200.7	04/26/2007 11:06:00 PM
Magnesium as Mg (SPLP)	7.5	mg/l	AH	0.5	200.7	04/26/2007 11:06:00 PM
Potassium as K (SPLP)	2.2	mg/l	KC	0.5	200.7	04/30/2007 09:35:00 PM
Sodium as Na (SPLP)	9	mg/l	KC	0.5	200.7	05/23/2007 07:22:00 PM
Aluminum as Al (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 11:06:00 PM
Arsenic as As (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 09:06:00 PM
Barium as Ba (SPLP)	0.16 B	mg/l	BH	0.005	200.8	04/26/2007 09:06:00 PM
Boron as B (SPLP)	0.2	mg/l	AH	0.1	200.7	04/26/2007 11:06:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/26/2007 09:06:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 09:06:00 PM
Copper as Cu (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 09:06:00 PM
Iron as Fe (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/26/2007 11:06:00 PM
Iron as Fe (Total, SPLP)	0.02	mg/l	KC	0.01	200.7	04/24/2007 08:45:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 09:06:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	04/26/2007 09:06:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 03:39:05 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 11:06:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 09:06:00 PM
Selenium as Se (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 09:06:00 PM
Uranium as U (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/01/2007 10:07:00 AM
Radium as V (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/26/2007 11:06:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100343-42
Sample Name: SHOB-28, 40-45'
Sample Date/Time: 10/25/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.14	mg/l	AH	0.01	200.7	04/26/2007 11:06:00 PM
SPLP Extraction Date	6688	----	LL	----	1312	04/12/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1804	----	GC	----	200.7	04/23/2007 08:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100343-25
Sample Name: SHOB-29, 25-30'
Sample Date/Time: 10/25/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	9 J	mg/l	ES	5	305.2	04/23/2007 07:05:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	57 J	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	47 J	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/10/2007 10:38:00 AM
Electrical Conductivity (SPLP)	155 J	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.24	mg/l	MRK	0.1	300.0	05/10/2007 10:38:00 AM
Hardness as CaCO3 (SPLP)	26 J	mg/l	AH	4	2340B	04/26/2007 10:55:00 PM
pH (SPLP)	7.6 J	S.U.	TD	1.0-13.5	150.1	04/23/2007 08:15:00 AM
Sodium Absorption Ratio (SPLP)	1.19	---	KC	0.1	20b	05/23/2007 07:11:00 PM
Total Dissolved Solids (SPLP)	76 J	mg/l	RM	20	160.1	04/20/2007 11:50:00 AM
Total Suspended Solids (SPLP)	<4*	mg/l	RM	4	160.2	04/20/2007 11:50:00 AM
Calcium as Ca (SPLP)	5.2	mg/l	AH	0.5	200.7	04/26/2007 10:55:00 PM
Magnesium as Mg (SPLP)	3.2	mg/l	AH	0.5	200.7	04/26/2007 10:55:00 PM
Potassium as K (SPLP)	3.0	mg/l	KC	0.5	200.7	04/30/2007 09:28:00 PM
Sodium as Na (SPLP)	14	mg/l	KC	0.5	200.7	05/23/2007 07:11:00 PM
Aluminum as Al (SPLP)	0.14 J	mg/l	AH	0.05	200.7	04/26/2007 10:55:00 PM
Arsenic as As (SPLP)	0.003	mg/l	BH	0.001	200.8	04/26/2007 08:48:00 PM
Barium as Ba (SPLP)	0.32 J	mg/l	BH	0.005	200.8	04/26/2007 08:48:00 PM
Boron as B (SPLP)	0.2	mg/l	AH	0.1	200.7	04/26/2007 10:55:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/26/2007 08:48:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 08:48:00 PM
Copper as Cu (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 08:48:00 PM
Iron as Fe (SPLP)	0.20 J	mg/l	AH	0.01	200.7	04/26/2007 10:55:00 PM
Iron as Fe (Total, SPLP)	1.06	mg/l	KC	0.01	200.7	04/24/2007 08:33:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 08:48:00 PM
Manganese as Mn (SPLP)	0.011	mg/l	BH	0.005	200.8	04/26/2007 08:48:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 03:29:50 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 10:55:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/26/2007 08:48:00 PM
Selenium as Se (SPLP)	0.008	mg/l	BH	0.001	200.8	04/26/2007 08:48:00 PM
Uranium as U (SPLP)	0.001	mg/l	BH	0.001	200.8	05/01/2007 10:01:00 AM
Vanadium as V (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/26/2007 10:55:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100343-25
Sample Name: SHOB-29, 25-30'
Sample Date/Time: 10/25/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.03 J	mg/l	AH	0.01	200.7	04/26/2007 10:55:00 PM
SPLP Extraction Date	6688	---	LL	---	1312	04/12/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1804	---	GC	---	200.7	04/23/2007 08:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100327-21
Sample Name: SHOB-30, 45-50'
Sample Date/Time: 10/19/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/23/2007 12:55:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	45	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	37	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	04/27/2007 01:50:00 AM
Electrical Conductivity (SPLP)	214	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.52	mg/l	MRK	0.1	300.0	04/27/2007 01:50:00 AM
Hardness as CaCO3 (SPLP)	40	mg/l	KC	4	2340B	04/30/2007 07:22:00 PM
pH (SPLP)	7.8	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	2.97	---	KC	0.1	20b	05/03/2007 06:39:00 PM
Total Dissolved Solids (SPLP)	493	mg/l	ES	20	160.1	04/18/2007 04:45:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/18/2007 04:44:00 PM
Calcium as Ca (SPLP)	2.0	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Magnesium as Mg (SPLP)	8.4	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Potassium as K (SPLP)	4.1	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Sodium as Na (SPLP)	43	mg/l	KC	0.5	200.7	05/03/2007 06:39:00 PM
Aluminum as Al (SPLP)	2.08	mg/l	AH	0.05	200.7	04/26/2007 08:35:00 PM
Arsenic as As (SPLP)	0.058	mg/l	BH	0.001	200.8	04/26/2007 05:20:00 PM
Barium as Ba (SPLP)	0.32B	mg/l	BH	0.005	200.8	04/26/2007 05:20:00 PM
Boron as B (SPLP)	0.5	mg/l	KC	0.1	200.7	05/03/2007 06:39:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/26/2007 05:20:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 05:20:00 PM
Copper as Cu (SPLP)	0.007	mg/l	BH	0.001	200.8	04/26/2007 05:20:00 PM
Iron as Fe (SPLP)	8.23	mg/l	KC	0.01	200.7	05/03/2007 06:39:00 PM
Iron as Fe (Total, SPLP)	5.4	mg/l	KC	0.01	200.7	04/24/2007 05:58:00 PM
Lead as Pb (SPLP)	0.004	mg/l	BH	0.001	200.8	04/26/2007 05:20:00 PM
Manganese as Mn (SPLP)	0.026	mg/l	BH	0.005	200.8	04/26/2007 05:20:00 PM
Mercury as Hg (SPLP)	0.00002	mg/l	BH	0.00001	200.8	04/25/2007 02:04:44 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 08:35:00 PM
Nickel as Ni (SPLP)	0.02	mg/l	BH	0.01	200.8	04/26/2007 05:20:00 PM
Selenium as Se (SPLP)	0.004	mg/l	BH	0.001	200.8	04/26/2007 05:20:00 PM
Uranium as U (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 02:26:00 PM
Vanadium as V (SPLP)	0.08	mg/l	AH	0.01	200.7	04/26/2007 08:35:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100327-21
Sample Name: SHOB-30, 45-50'
Sample Date/Time: 10/19/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.26 B	mg/l	KC	0.01	200.7	05/03/2007 06:39:00 PM
SPLP Extraction Date	6684	---	LL	---	1312	04/10/2007 04:50:00 PM
SPLP ICP/AA Batch #/Digest Date	1803	---	KC	---	200.7	04/20/2007 05:10:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
 Project Name: SOUTH HEART OVERBURDEN
 Project No.: 063-2174
 Laboratory No.: 2000100327-27
 Sample Name: SHOB-30, 95-100'
 Sample Date/Time: 10/19/2006 ----
 Collected by: RYAN TOLENE
 Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/23/2007 12:55:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	137	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	113	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	04/27/2007 02:21:00 AM
Electrical Conductivity (SPLP)	389	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.34	mg/l	MRK	0.1	300.0	04/27/2007 02:21:00 AM
Hardness as CaCO3 (SPLP)	<4	mg/l	KC	4	2340B	04/30/2007 07:22:00 PM
pH (SPLP)	8.4	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	23.4	---	KC	0.1	20b	05/03/2007 06:42:00 PM
Total Dissolved Solids (SPLP)	267	mg/l	ES	20	160.1	04/18/2007 04:45:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/18/2007 04:44:00 PM
Calcium as Ca (SPLP)	1.0	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Magnesium as Mg (SPLP)	<0.5	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Potassium as K (SPLP)	2.2	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Sodium as Na (SPLP)	85	mg/l	KC	0.5	200.7	05/03/2007 06:42:00 PM
Aluminum as Al (SPLP)	1.34	mg/l	AH	0.05	200.7	04/26/2007 08:38:00 PM
Arsenic as As (SPLP)	0.010	mg/l	BH	0.001	200.8	04/26/2007 05:26:00 PM
Barium as Ba (SPLP)	0.34 B	mg/l	BH	0.005	200.8	04/26/2007 05:26:00 PM
Boron as B (SPLP)	0.3	mg/l	KC	0.1	200.7	05/03/2007 06:42:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/26/2007 05:26:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 05:26:00 PM
Copper as Cu (SPLP)	0.013	mg/l	BH	0.001	200.8	04/26/2007 05:26:00 PM
Iron as Fe (SPLP)	0.81	mg/l	KC	0.01	200.7	05/03/2007 06:42:00 PM
Iron as Fe (Total, SPLP)	0.60	mg/l	KC	0.01	200.7	04/24/2007 05:58:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 05:26:00 PM
Manganese as Mn (SPLP)	0.015	mg/l	BH	0.005	200.8	04/26/2007 05:26:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 02:09:23 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 08:38:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/26/2007 05:26:00 PM
Selenium as Se (SPLP)	0.006	mg/l	BH	0.001	200.8	04/26/2007 05:26:00 PM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 02:28:00 PM
Vanadium as V (SPLP)	0.01	mg/l	AH	0.01	200.7	04/26/2007 08:38:00 PM

Client: GOLDER ASSOCIATES, INC.
 Project Name: SOUTH HEART OVERBURDEN
 Project No.: 063-2174
 Laboratory No.: 2000100327-27
 Sample Name: SHOB-30, 95-100'
 Sample Date/Time: 10/19/2006 ----
 Collected by: RYAN TOLENE
 Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.06 B	mg/l	KC	0.01	200.7	05/03/2007 06:42:00 PM
SPLP Extraction Date	6684	---	LL	---	1312	04/10/2007 04:50:00 PM
SPLP ICP/AA Batch #/Digest Date	1803	---	KC	---	200.7	04/20/2007 05:10:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: SOUTH HEART OVERBURDEN
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100327-30
Sample Name: SHOB-30, 110-115'
Sample Date/Time: 10/20/2006 10:36:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<1	mg/l	RM	1	305.2	08/21/2007 11:27:46 AM
Alkalinity Bicarb. as HCO ₃ (SPLP)	181	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Alkalinity Carbonate as CO ₃ (SPLP)	7	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Alkalinity Total as CaCO ₃ (SPLP)	160	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Chloride as Cl (SPLP)	1	mg/l	ES	1	300.0	08/25/2007 07:05:00 PM
Electrical Conductivity (SPLP)	392	umhos/cm	LL	10	2510B	08/10/2007 09:05:00 AM
Fluoride (undistilled) (SPLP)	0.28	mg/l	ES	0.1	300.0	08/25/2007 07:05:00 PM
Hardness as CaCO ₃ (SPLP)	7	mg/l	BH	4	2340B	08/20/2007 12:02:00 PM
pH (SPLP)	9.2	S.U.	LL	1.0-13.5	150.1	08/08/2007 03:50:00 PM
Sodium Absorption Ratio (SPLP)	14.4	—	BH	0.1	20b	08/20/2007 12:02:00 PM
Total Dissolved Solids (SPLP)	259HT	mg/l	RM	10	2540C	08/16/2007 01:54:00 PM
Total Suspended Solids (SPLP)	10HT	mg/l	RM	4	2540D	08/16/2007 02:22:00 PM
Calcium as Ca (SPLP)	1.9	mg/l	BH	0.5	200.7	08/20/2007 12:02:00 PM
Magnesium as Mg (SPLP)	0.5	mg/l	BH	0.5	200.7	08/20/2007 12:02:00 PM
Potassium as K (SPLP)	2.1	mg/l	BH	0.5	200.7	08/20/2007 12:02:00 PM
Sodium as Na (SPLP)	86	mg/l	BH	0.5	200.7	08/20/2007 12:02:00 PM
Aluminum as Al (SPLP)	0.33	mg/l	KC	0.05	200.7	08/17/2007 10:53:00 PM
Arsenic as As (SPLP)	0.078	mg/l	DK	0.001	200.8	08/29/2007 12:56:00 PM
Barium as Ba (SPLP)	0.21	mg/l	DK	0.005	200.8	08/29/2007 12:56:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	08/17/2007 10:53:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	DK	0.0001	200.8	08/29/2007 12:56:00 PM
Chromium as Cr (SPLP)	0.004	mg/l	DK	0.001	200.8	08/23/2007 09:15:00 PM
Copper as Cu (SPLP)	0.044	mg/l	DK	0.001	200.8	08/23/2007 09:15:00 PM
Iron as Fe (SPLP)	0.32	mg/l	KC	0.01	200.7	08/17/2007 10:53:00 PM
Iron as Fe (Total, SPLP)	1.40	mg/l	BH	0.01	200.7	08/23/2007 02:05:00 PM
Lead as Pb (SPLP)	0.004	mg/l	DK	0.001	200.8	08/29/2007 12:56:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	KC	0.005	200.7	08/17/2007 10:53:00 PM
Mercury as Hg (SPLP)	0.00006	mg/l	DK	0.00001	200.8	08/27/2007 02:45:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	DK	0.05	200.8	08/29/2007 12:56:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	DK	0.01	200.8	08/23/2007 09:15:00 PM
Selenium as Se (SPLP)	0.011	mg/l	DK	0.001	200.8	08/29/2007 12:56:00 PM
Uranium as U (SPLP)	0.005	mg/l	DK	0.001	200.8	08/23/2007 09:15:00 PM
Vanadium as V (SPLP)	0.09	mg/l	DK	0.01	200.8	08/23/2007 09:15:00 PM

Western Analytical Laboratories, Inc.

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100327-30
Sample Name: SHOB-30, 110-115'
Sample Date/Time: 10/20/2006 10:36:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.06 B	mg/l	DK	0.01	200.8	08/23/2007 09:15:00 PM
SPLP Extraction Date	6750	---	LL	---	1312	08/07/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1048	---	JH	---	200.7	08/20/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100327-41
Sample Name: SHOB-30, 165-170'
Sample Date/Time: 10/20/2006 11:00:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<1	mg/l	RM	1	305.2	08/21/2007 11:29:54 AM
Alkalinity Bicarb. as HCO3 (SPLP)	170	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	4	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	146	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Chloride as Cl (SPLP)	1	mg/l	ES	1	300.0	08/25/2007 07:05:00 PM
Electrical Conductivity (SPLP)	328	umhos/cm	LL	10	2510B	08/10/2007 09:05:00 AM
Fluoride (undistilled) (SPLP)	0.24	mg/l	ES	0.1	300.0	08/25/2007 07:05:00 PM
Hardness as CaCO3 (SPLP)	7	mg/l	BH	4	2340B	08/20/2007 12:11:00 PM
pH (SPLP)	9.0	S.U.	LL	1.0-13.5	150.1	08/08/2007 03:50:00 PM
Sodium Absorption Ratio (SPLP)	11.5	—	BH	0.1	20b	08/20/2007 12:11:00 PM
Total Dissolved Solids (SPLP)	218HT	mg/l	RM	10	2540C	08/16/2007 01:54:00 PM
Total Suspended Solids (SPLP)	<4HT	mg/l	RM	4	2540D	08/16/2007 02:22:00 PM
Calcium as Ca (SPLP)	2.0	mg/l	BH	0.5	200.7	08/20/2007 12:11:00 PM
Magnesium as Mg (SPLP)	0.6	mg/l	BH	0.5	200.7	08/20/2007 12:11:00 PM
Potassium as K (SPLP)	2.5	mg/l	BH	0.5	200.7	08/20/2007 12:11:00 PM
Sodium as Na (SPLP)	72	mg/l	BH	0.5	200.7	08/20/2007 12:11:00 PM
Aluminum as Al (SPLP)	0.17	mg/l	KC	0.05	200.7	08/17/2007 11:11:00 PM
Arsenic as As (SPLP)	0.026	mg/l	DK	0.001	200.8	08/29/2007 01:05:00 PM
Barium as Ba (SPLP)	0.16	mg/l	DK	0.005	200.8	08/29/2007 01:05:00 PM
Boron as B (SPLP)	0.1	mg/l	KC	0.1	200.7	08/17/2007 11:11:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	DK	0.0001	200.8	08/29/2007 01:05:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	DK	0.001	200.8	08/23/2007 09:28:00 PM
Copper as Cu (SPLP)	0.006	mg/l	DK	0.001	200.8	08/23/2007 09:28:00 PM
Iron as Fe (SPLP)	0.21	mg/l	KC	0.01	200.7	08/17/2007 11:11:00 PM
Iron as Fe (Total, SPLP)	0.62	mg/l	BH	0.01	200.7	08/23/2007 02:13:00 PM
Lead as Pb (SPLP)	0.002	mg/l	DK	0.001	200.8	08/29/2007 01:05:00 PM
Manganese as Mn (SPLP)	0.008	mg/l	KC	0.005	200.7	08/17/2007 11:11:00 PM
Mercury as Hg (SPLP)	0.00004 J	mg/l	DK	0.00001	200.8	08/28/2007 01:00:00 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	DK	0.05	200.8	08/29/2007 01:05:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	DK	0.01	200.8	08/23/2007 09:28:00 PM
Selenium as Se (SPLP)	0.007	mg/l	DK	0.001	200.8	08/29/2007 01:05:00 PM
Uranium as U (SPLP)	0.003	mg/l	DK	0.001	200.8	08/23/2007 09:28:00 PM
Vanadium as V (SPLP)	0.02	mg/l	DK	0.01	200.8	08/23/2007 09:28:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100327-41
Sample Name: SHOB-30, 165-170'
Sample Date/Time: 10/20/2006 11:00:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.04 B	mg/l	DK	0.01	200.8	08/23/2007 09:28:00 PM
SPLP Extraction Date	6750	—	LL	—	1312	08/07/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1048	—	JH	—	200.7	08/20/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110085-25
Sample Name: SHOB-31, 30-35
Sample Date/Time: 10/27/2006 -----
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	05/04/2007 09:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	93	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	76	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/18/2007 09:42:00 AM
Electrical Conductivity (SPLP)	298	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.21	mg/l	MRK	0.1	300.0	05/18/2007 09:42:00 AM
Hardness as CaCO3 (SPLP)	5	mg/l	KC	4	2340B	05/04/2007 01:03:00 PM
pH (SPLP)	7.9	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:00:00 PM
Sodium Absorption Ratio (SPLP)	11.6	---	KC	0.1	20b	05/04/2007 01:03:00 PM
Total Dissolved Solids (SPLP)	359	mg/l	RM	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/27/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.0	mg/l	KC	0.5	200.7	05/04/2007 01:03:00 PM
Magnesium as Mg (SPLP)	0.7	mg/l	KC	0.5	200.7	05/04/2007 01:03:00 PM
Potassium as K (SPLP)	1.6	mg/l	KC	0.5	200.7	05/04/2007 01:03:00 PM
Sodium as Na (SPLP)	62	mg/l	KC	0.5	200.7	05/04/2007 01:03:00 PM
Aluminum as Al (SPLP)	1.11	mg/l	KC	0.05	200.7	05/04/2007 01:03:00 PM
Arsenic as As (SPLP)	0.021	mg/l	BH	0.001	200.8	05/08/2007 10:21:00 PM
Barium as Ba (SPLP)	0.45	mg/l	BH	0.005	200.8	05/08/2007 10:21:00 PM
Boron as B (SPLP)	0.3B	mg/l	KC	0.1	200.7	05/04/2007 01:03:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	05/08/2007 10:21:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	05/08/2007 10:21:00 PM
Copper as Cu (SPLP)	0.010	mg/l	BH	0.001	200.8	05/08/2007 10:21:00 PM
Iron as Fe (SPLP)	0.85	mg/l	BH	0.01	200.7	05/04/2007 01:03:00 PM
Iron as Fe (Total, SPLP)	3.04	mg/l	BH	0.01	200.7	05/09/2007 06:00:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	05/08/2007 10:21:00 PM
Manganese as Mn (SPLP)	0.012	mg/l	BH	0.005	200.8	05/08/2007 10:21:00 PM
Mercury as Hg (SPLP)	0.00006	mg/l	BH	0.00001	200.8	05/09/2007 11:03:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 01:03:00 PM
Nickel as Ni (SPLP)	0.02	mg/l	BH	0.01	200.8	05/08/2007 10:21:00 PM
Selenium as Se (SPLP)	0.009	mg/l	BH	0.001	200.8	05/08/2007 10:21:00 PM
Uranium as U (SPLP)	<0.001	mg/l	AH	0.001	200.8	05/24/2007 12:06:00 PM
Vanadium as V (SPLP)	0.09	mg/l	BH	0.01	200.8	05/08/2007 10:21:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110085-25
Sample Name: SHOB-31, 30-35
Sample Date/Time: 10/27/2006 ----
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.10 B	mg/l	KC	0.01	200.7	05/04/2007 01:03:00 PM
SPLP Extraction Date	6700	----	LL	---	1312	04/20/2007 04:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1823	----	KC	---	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110085-37
Sample Name: SHOB-31, 90-95
Sample Date/Time: 10/27/2006
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	8	mg/l	ES	5	305.2	05/04/2007 09:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	83	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Alkalinity Total as CaCO3 (SPLP)	68	mg/l	ES	1	2320B	05/03/2007 08:00:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/18/2007 10:13:00 AM
Electrical Conductivity (SPLP)	217	umhos/cm	CC	10	2510B	05/18/2007 05:25:00 PM
Fluoride (undistilled) (SPLP)	0.23	mg/l	MRK	0.1	300.0	05/18/2007 10:13:00 AM
Hardness as CaCO3 (SPLP)	7	mg/l	KC	4	2340B	05/04/2007 01:07:00 PM
pH (SPLP)	7.2	S.U.	ES	1.0-13.5	150.1	05/04/2007 12:00:00 PM
Sodium Absorption Ratio (SPLP)	7.45	---	KC	0.1	20b	05/04/2007 01:07:00 PM
Total Dissolved Solids (SPLP)	164	mg/l	RM	20	160.1	04/27/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	RM	4	160.2	04/27/2007 08:00:00 AM
Calcium as Ca (SPLP)	1.9	mg/l	KC	0.5	200.7	05/04/2007 01:07:00 PM
Magnesium as Mg (SPLP)	0.6	mg/l	KC	0.5	200.7	05/04/2007 01:07:00 PM
Potassium as K (SPLP)	1.8	mg/l	KC	0.5	200.7	05/04/2007 01:07:00 PM
Sodium as Na (SPLP)	46	mg/l	KC	0.5	200.7	05/04/2007 01:07:00 PM
Aluminum as Al (SPLP)	0.44	mg/l	KC	0.05	200.7	05/04/2007 01:07:00 PM
Arsenic as As (SPLP)	0.015	mg/l	BH	0.001	200.8	05/08/2007 10:27:00 PM
Barium as Ba (SPLP)	0.12	mg/l	BH	0.005	200.8	05/08/2007 10:27:00 PM
Boron as B (SPLP)	0.1B	mg/l	KC	0.1	200.7	05/04/2007 01:07:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	05/08/2007 10:27:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/08/2007 10:27:00 PM
Copper as Cu (SPLP)	0.005	mg/l	BH	0.001	200.8	05/08/2007 10:27:00 PM
Iron as Fe (SPLP)	0.27	mg/l	BH	0.01	200.7	05/04/2007 01:07:00 PM
Iron as Fe (Total, SPLP)	0.41	mg/l	BH	0.01	200.7	05/09/2007 06:04:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	05/08/2007 10:27:00 PM
Manganese as Mn (SPLP)	0.007	mg/l	BH	0.005	200.8	05/08/2007 10:27:00 PM
Mercury as Hg (SPLP)	0.00004	mg/l	BH	0.00001	200.8	05/09/2007 11:08:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/04/2007 01:07:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	05/08/2007 10:27:00 PM
Selenium as Se (SPLP)	0.002	mg/l	BH	0.001	200.8	05/08/2007 10:27:00 PM
Uranium as U (SPLP)	0.002	mg/l	AH	0.001	200.8	05/24/2007 12:08:00 PM
Vanadium as V (SPLP)	0.07	mg/l	BH	0.01	200.8	05/08/2007 10:27:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110085-37
Sample Name: SHOB-31, 90-95
Sample Date/Time: 10/27/2006 ----
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.05 B	mg/l	KC	0.01	200.7	05/04/2007 01:07:00 PM
SPLP Extraction Date	6700	----	LL	----	1312	04/20/2007 04:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1823	----	KC	----	200.7	05/03/2007 09:30:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110085-45
Sample Name: SHOB-31, 145-150
Sample Date/Time: 10/27/2006 11:27:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	13	mg/l	ES	1	305.2	04/27/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	43	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Total as CaCO3 (SPLP)	35	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/12/2007 08:22:00 PM
Electrical Conductivity (SPLP)	272	umhos/cm	CC	10	2510B	05/14/2007 10:55:00 AM
Fluoride (undistilled) (SPLP)	0.42	mg/l	MRK	0.1	300.0	05/12/2007 08:22:00 PM
Hardness as CaCO3 (SPLP)	4	mg/l	KC	4	2340B	05/11/2007 11:10:00 PM
pH (SPLP)	6.8	S.U.	ES	1.0-13.5	150.1	04/27/2007 11:45:00 AM
Sodium Absorption Ratio (SPLP)	10.7	---	KC	0.1	20b	05/11/2007 11:10:00 PM
Total Dissolved Solids (SPLP)	226	mg/l	ES	20	160.1	04/24/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/24/2007 08:00:00 AM
Calcium as Ca (SPLP)	0.9	mg/l	KC	0.5	200.7	05/11/2007 11:10:00 PM
Magnesium as Mg (SPLP)	0.5	mg/l	KC	0.5	200.7	05/11/2007 11:10:00 PM
Potassium as K (SPLP)	1.5	mg/l	KC	0.5	200.7	05/11/2007 11:10:00 PM
Sodium as Na (SPLP)	51	mg/l	KC	0.5	200.7	05/11/2007 11:10:00 PM
Aluminum as Al (SPLP)	0.88	mg/l	KC	0.05	200.7	05/23/2007 09:06:00 PM
Arsenic as As (SPLP)	0.043	mg/l	BH	0.001	200.8	04/27/2007 06:49:00 PM
Barium as Ba (SPLP)	0.28 B	mg/l	BH	0.005	200.8	04/27/2007 06:49:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/23/2007 09:06:00 PM
Cadmium as Cd (SPLP)	0.0002	mg/l	BH	0.0001	200.8	04/27/2007 06:49:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/27/2007 06:49:00 PM
Copper as Cu (SPLP)	0.009 B	mg/l	BH	0.001	200.8	04/27/2007 06:49:00 PM
Iron as Fe (SPLP)	0.54	mg/l	KC	0.01	200.7	05/23/2007 09:06:00 PM
Iron as Fe (Total, SPLP)	1.09	mg/l	AH	0.01	200.7	05/02/2007 05:56:00 PM
Lead as Pb (SPLP)	0.002 B	mg/l	BH	0.001	200.8	04/27/2007 06:49:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	04/27/2007 06:49:00 PM
Mercury as Hg (SPLP)	0.00010 B	mg/l	BH	0.00001	200.8	05/09/2007 02:30:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/23/2007 09:06:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/27/2007 06:49:00 PM
Selenium as Se (SPLP)	0.012	mg/l	BH	0.001	200.8	04/27/2007 06:49:00 PM
Uranium as U (SPLP)	<0.001	mg/l	AH	0.001	200.8	05/01/2007 10:45:00 AM
Vanadium as V (SPLP)	0.06	mg/l	BH	0.01	200.8	04/27/2007 06:49:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110085-45
Sample Name: SHOB-31, 145-150
Sample Date/Time: 10/27/2006 11:27:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.11 B	mg/l	KC	0.01	200.7	05/23/2007 09:06:00 PM
SPLP Extraction Date	6693	---	LL	---	1312	04/16/2007 05:07:00 PM
SPLP ICP/AA Batch #/Digest Date	1811	---	GC	---	200.7	04/27/2007 10:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEM
Project No.: 063-2174
Laboratory No.: 2000100345-19
Sample Name: SHOB-32, 15-20'
Sample Date/Time: 10/26/2006 -----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	15	mg/l	ES	5	305.2	04/23/2007 07:05:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	42	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	34	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/10/2007 08:16:00 PM
Electrical Conductivity (SPLP)	691	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.46	mg/l	MRK	0.1	300.0	05/10/2007 08:16:00 PM
Hardness as CaCO3 (SPLP)	100	mg/l	AH	4	2340B	04/27/2007 12:09:00 PM
pH (SPLP)	6.6	S.U.	TD	1.0-13.5	150.1	04/23/2007 08:15:00 AM
Sodium Absorption Ratio (SPLP)	3.00	---	KC	0.1	20b	05/23/2007 08:36:00 PM
Total Dissolved Solids (SPLP)	412	mg/l	RM	20	160.1	04/20/2007 11:50:00 AM
Total Suspended Solids (SPLP)	<4*	mg/l	RM	4	160.2	04/20/2007 11:50:00 AM
Calcium as Ca (SPLP)	22	mg/l	AH	0.5	200.7	04/27/2007 12:09:00 AM
Magnesium as Mg (SPLP)	11	mg/l	AH	0.5	200.7	04/27/2007 12:09:00 AM
Potassium as K (SPLP)	6.7	mg/l	KC	0.5	200.7	04/30/2007 10:11:00 PM
Sodium as Na (SPLP)	69	mg/l	KC	0.5	200.7	05/23/2007 08:36:00 PM
Aluminum as Al (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/27/2007 12:09:00 AM
Arsenic as As (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 10:44:00 PM
Barium as Ba (SPLP)	0.15 B	mg/l	BH	0.005	200.8	04/26/2007 10:44:00 PM
Boron as B (SPLP)	0.2	mg/l	AH	0.1	200.7	04/27/2007 12:09:00 AM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/26/2007 10:44:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:44:00 PM
Copper as Cu (SPLP)	0.003	mg/l	BH	0.001	200.8	04/26/2007 10:44:00 PM
Iron as Fe (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/27/2007 12:09:00 AM
Iron as Fe (Total, SPLP)	<0.01	mg/l	KC	0.01	200.7	04/24/2007 09:51:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:44:00 PM
Manganese as Mn (SPLP)	0.050	mg/l	BH	0.005	200.8	04/26/2007 10:44:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 05:02:29 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/27/2007 12:09:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 10:44:00 PM
Selenium as Se (SPLP)	0.004	mg/l	BH	0.001	200.8	04/26/2007 10:44:00 PM
Uranium as U (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/01/2007 10:42:00 AM
Vanadium as V (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/27/2007 12:09:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEM
Project No.: 063-2174
Laboratory No.: 2000100345-19
Sample Name: SHOB-32, 15-20'
Sample Date/Time: 10/26/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.09	mg/l	AH	0.01	200.7	04/27/2007 12:09:00 AM
SPLP Extraction Date	6688	----	LL	---	1312	04/16/2007 05:07:00 PM
SPLP ICP/AA Batch #/Digest Date	1804	----	GC	---	200.7	04/23/2007 08:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	----	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEM
Project No.: 063-2174
Laboratory No.: 2000100345-38
Sample Name: SHOB-32, 110-115
Sample Date/Time: 10/26/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	6	mg/l	ES	5	305.2	04/23/2007 07:05:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	113	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	92	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/10/2007 08:46:00 PM
Electrical Conductivity (SPLP)	391	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.67	mg/l	MRK	0.1	300.0	05/10/2007 08:46:00 PM
Hardness as CaCO3 (SPLP)	4	mg/l	AH	4	2340B	04/27/2007 12:13:00 PM
pH (SPLP)	7.1	S.U.	TD	1.0-13.5	150.1	04/23/2007 08:15:00 AM
Sodium Absorption Ratio (SPLP)	15.5	---	KC	0.1	20b	05/23/2007 08:40:00 PM
Total Dissolved Solids (SPLP)	274	mg/l	RM	20	160.1	04/20/2007 11:50:00 AM
Total Suspended Solids (SPLP)	<4 UJ	mg/l	RM	4	160.2	04/20/2007 11:50:00 AM
Strontium as Ca (SPLP)	0.9 B	mg/l	AH	0.5	200.7	04/27/2007 12:13:00 AM
Magnesium as Mg (SPLP)	0.5	mg/l	AH	0.5	200.7	04/27/2007 12:13:00 AM
Potassium as K (SPLP)	1.9	mg/l	KC	0.5	200.7	04/30/2007 10:18:00 PM
Sodium as Na (SPLP)	74	mg/l	BH	0.5	200.7	05/23/2007 08:40:00 PM
Aluminum as Al (SPLP)	0.35	mg/l	AH	0.05	200.7	04/27/2007 12:13:00 AM
Arsenic as As (SPLP)	0.097	mg/l	BH	0.001	200.8	04/26/2007 10:50:00 PM
Barium as Ba (SPLP)	0.23 B	mg/l	BH	0.005	200.8	04/26/2007 10:50:00 PM
Boron as B (SPLP)	0.3	mg/l	AH	0.1	200.7	04/27/2007 12:13:00 AM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/26/2007 10:50:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:50:00 PM
Copper as Cu (SPLP)	0.006	mg/l	BH	0.001	200.8	04/26/2007 10:50:00 PM
Iron as Fe (SPLP)	0.26	mg/l	AH	0.01	200.7	04/27/2007 12:13:00 AM
Iron as Fe (Total, SPLP)	1.05	mg/l	KC	0.01	200.7	04/24/2007 09:55:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 10:50:00 PM
Manganese as Mn (SPLP)	0.006	mg/l	BH	0.005	200.8	04/26/2007 10:50:00 PM
Mercury as Hg (SPLP)	0.00001	mg/l	BH	0.00001	200.8	04/25/2007 05:07:06 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/27/2007 12:13:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 10:50:00 PM
Selenium as Se (SPLP)	0.003	mg/l	BH	0.001	200.8	04/26/2007 10:50:00 PM
Thorium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	05/01/2007 10:44:00 AM
Vanadium as V (SPLP)	0.07	mg/l	AH	0.01	200.7	04/27/2007 12:13:00 AM

Client: GOLDER ASSOCIATES, INC.
 Project Name: SOUTH HEART OVERBURDEM
 Project No.: 063-2174
 Laboratory No.: 2000100345-38
 Sample Name: SHOB-32, 110-115
 Sample Date/Time: 10/26/2006 ----
 Collected by: RYAN TOLENE
 Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.15	mg/l	AH	0.01	200.7	04/27/2007 12:13:00 AM
SPLP Extraction Date	6688	---	LL	---	1312	04/16/2007 05:07:00 PM
SPLP ICP/AA Batch #/Digest Date	1804	---	GC	---	200.7	04/23/2007 08:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100344-19
Sample Name: SHOB-33, 15-20'
Sample Date/Time: 10/26/2006 11:32:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	5	mg/l	RM	1	305.2	08/21/2007 01:13:40 PM
Alkalinity Bicarb. as HCO3 (SPLP)	70	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	<1	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	57	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Chloride as Cl (SPLP)	1	mg/l	ES	1	300.0	08/25/2007 07:05:00 PM
Electrical Conductivity (SPLP)	636	umhos/cm	LL	10	2510B	08/10/2007 09:05:00 AM
Fluoride (undistilled) (SPLP)	0.36	mg/l	ES	0.1	300.0	08/25/2007 07:05:00 PM
Hardness as CaCO3 (SPLP)	32	mg/l	BH	4	2340B	08/20/2007 12:20:00 PM
pH (SPLP)	8.3	S.U.	LL	1.0-13.5	150.1	08/08/2007 03:50:00 PM
Sodium Absorption Ratio (SPLP)	8.61	---	BH	0.1	20b	08/20/2007 12:20:00 PM
Total Dissolved Solids (SPLP)	420HT	mg/l	RM	10	2540C	08/16/2007 01:54:00 PM
Total Suspended Solids (SPLP)	<4HT	mg/l	RM	4	2540D	08/16/2007 02:22:00 PM
Calcium as Ca (SPLP)	5.9	mg/l	BH	0.5	200.7	08/20/2007 12:20:00 PM
Magnesium as Mg (SPLP)	4.2	mg/l	BH	0.5	200.7	08/20/2007 12:20:00 PM
Potassium as K (SPLP)	3.8	mg/l	BH	0.5	200.7	08/20/2007 12:20:00 PM
Sodium as Na (SPLP)	112	mg/l	BH	0.5	200.7	08/20/2007 12:20:00 PM
Aluminum as Al (SPLP)	0.47	mg/l	KC	0.05	200.7	08/17/2007 11:30:00 PM
Arsenic as As (SPLP)	<0.001	mg/l	DK	0.001	200.8	08/29/2007 01:36:00 PM
Barium as Ba (SPLP)	0.21	mg/l	DK	0.005	200.8	08/29/2007 01:36:00 PM
Boron as B (SPLP)	<0.1	mg/l	KC	0.1	200.7	08/17/2007 11:30:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	DK	0.0001	200.8	08/29/2007 01:36:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	DK	0.001	200.8	08/23/2007 10:09:00 PM
Copper as Cu (SPLP)	0.010	mg/l	DK	0.001	200.8	08/23/2007 10:09:00 PM
Iron as Fe (SPLP)	0.29	mg/l	KC	0.01	200.7	08/17/2007 11:30:00 PM
Iron as Fe (Total, SPLP)	0.37	mg/l	BH	0.01	200.7	08/23/2007 02:35:00 PM
Lead as Pb (SPLP)	0.002	mg/l	DK	0.001	200.8	08/29/2007 01:36:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	KC	0.005	200.7	08/17/2007 11:30:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	DK	0.00001	200.8	08/28/2007 01:11:00 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	DK	0.05	200.8	08/29/2007 01:36:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	DK	0.01	200.8	08/23/2007 10:09:00 PM
Selenium as Se (SPLP)	0.007	mg/l	DK	0.001	200.8	08/29/2007 01:36:00 PM
Uranium as U (SPLP)	0.002	mg/l	DK	0.001	200.8	08/23/2007 10:09:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	DK	0.01	200.8	08/23/2007 10:09:00 PM

Southern Analytical Laboratories, Inc.

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100344-19
Sample Name: SHOB-33, 15-20'
Sample Date/Time: 10/26/2006 11:32:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.08 B	mg/l	DK	0.01	200.8	08/23/2007 10:09:00 PM
SPLP Extraction Date	6750	---	LL	---	1312	08/07/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1048	---	JH	---	200.7	08/20/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100344-23
Sample Name: SHOB-33, 35-40'
Sample Date/Time: 10/26/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/23/2007 07:05:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	65	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	53	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Chloride as Cl (SPLP)	3	mg/l	MRK	1	300.0	05/10/2007 03:42:00 PM
Electrical Conductivity (SPLP)	400	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.70	mg/l	MRK	0.1	300.0	05/10/2007 03:42:00 PM
Hardness as CaCO3 (SPLP)	14	mg/l	AH	4	2340B	04/26/2007 11:40:00 PM
pH (SPLP)	7.0	S.U.	TD	1.0-13.5	150.1	04/23/2007 08:15:00 AM
Sodium Absorption Ratio (SPLP)	7.80	---	KC	0.1	20b	05/23/2007 07:55:00 PM
Total Dissolved Solids (SPLP)	603	mg/l	RM	20	160.1	04/20/2007 11:50:00 AM
Total Suspended Solids (SPLP)	45 HT	mg/l	RM	4	160.2	05/04/2007 11:50:00 AM
Calcium as Ca (SPLP)	2.3	mg/l	AH	0.5	200.7	04/26/2007 11:40:00 PM
Magnesium as Mg (SPLP)	2.1	mg/l	AH	0.5	200.7	04/26/2007 11:40:00 PM
Potassium as K (SPLP)	1.8	mg/l	KC	0.5	200.7	04/30/2007 09:53:00 PM
Sodium as Na (SPLP)	68	mg/l	KC	0.5	200.7	05/23/2007 07:55:00 PM
Aluminum as Al (SPLP)	2.65	mg/l	AH	0.05	200.7	04/26/2007 11:40:00 PM
Arsenic as As (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 09:57:00 PM
Barium as Ba (SPLP)	0.55	mg/l	BH	0.005	200.8	04/26/2007 09:57:00 PM
Boron as B (SPLP)	0.3	mg/l	AH	0.1	200.7	04/26/2007 11:40:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/26/2007 09:57:00 PM
Chromium as Cr (SPLP)	0.003	mg/l	BH	0.001	200.8	04/26/2007 09:57:00 PM
Copper as Cu (SPLP)	0.015	mg/l	BH	0.001	200.8	04/26/2007 09:57:00 PM
Iron as Fe (SPLP)	1.82	mg/l	AH	0.01	200.7	04/26/2007 11:40:00 PM
Iron as Fe (Total, SPLP)	5.84	mg/l	KC	0.01	200.7	04/24/2007 09:14:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 09:57:00 PM
Manganese as Mn (SPLP)	0.038	mg/l	BH	0.005	200.8	04/26/2007 09:57:00 PM
Mercury as Hg (SPLP)	0.00001	mg/l	BH	0.00001	200.8	04/25/2007 04:14:12 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 11:40:00 PM
Nickel as Ni (SPLP)	0.02	mg/l	BH	0.01	200.8	04/26/2007 09:57:00 PM
Selenium as Se (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 09:57:00 PM
Uranium as U (SPLP)	0.001	mg/l	BH	0.001	200.8	05/01/2007 10:23:00 AM
Vanadium as V (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/26/2007 11:40:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100344-23
Sample Name: SHOB-33, 35-40'
Sample Date/Time: 10/26/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.18	mg/l	AH	0.01	200.7	04/26/2007 11:40:00 PM
SPLP Extraction Date	6688	----	LL	----	1312	04/13/2007 04:05:00 PM
SPLP ICP/AA Batch #/Digest Date	1804	----	GC	----	200.7	04/23/2007 08:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100328-7
Sample Name: SHOB-34, 30-35'
Sample Date/Time: 10/20/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	29	mg/l	ES	5	305.2	04/23/2007 12:55:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	5	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	4	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	04/27/2007 02:51:00 AM
Electrical Conductivity (SPLP)	327	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.43	mg/l	MRK	0.1	300.0	04/27/2007 02:51:00 AM
Hardness as CaCO3 (SPLP)	11	mg/l	KC	4	2340B	04/30/2007 07:22:00 PM
pH (SPLP)	5.4	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	7.27	---	BH	0.1	20b	05/03/2007 06:50:00 PM
Total Dissolved Solids (SPLP)	286	mg/l	ES	20	160.1	04/18/2007 04:45:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/18/2007 04:44:00 PM
Calcium as Ca (SPLP)	2.2	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Magnesium as Mg (SPLP)	1.3	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Potassium as K (SPLP)	2.8	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Sodium as Na (SPLP)	55	mg/l	KC	0.5	200.7	05/03/2007 06:50:00 PM
Aluminum as Al (SPLP)	0.75	mg/l	AH	0.05	200.7	04/26/2007 08:46:00 PM
Arsenic as As (SPLP)	0.007	mg/l	BH	0.001	200.8	04/26/2007 05:38:00 PM
Barium as Ba (SPLP)	0.25 B	mg/l	BH	0.005	200.8	04/26/2007 05:38:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/03/2007 06:50:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/26/2007 05:38:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 05:38:00 PM
Copper as Cu (SPLP)	0.010	mg/l	BH	0.001	200.8	04/26/2007 05:38:00 PM
Iron as Fe (SPLP)	0.63	mg/l	KC	0.01	200.7	05/03/2007 06:50:00 PM
Iron as Fe (Total, SPLP)	1.1	mg/l	KC	0.01	200.7	04/24/2007 05:58:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 05:38:00 PM
Manganese as Mn (SPLP)	0.019	mg/l	BH	0.005	200.8	04/26/2007 05:38:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 02:18:41 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 08:46:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 05:38:00 PM
Selenium as Se (SPLP)	0.008	mg/l	BH	0.001	200.8	04/26/2007 05:38:00 PM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 02:31:00 PM
Vanadium as V (SPLP)	0.02	mg/l	AH	0.01	200.7	04/26/2007 08:46:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100328-7
Sample Name: SHOB-34, 30-35'
Sample Date/Time: 10/20/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.12 B	mg/l	KC	0.01	200.7	05/03/2007 06:50:00 PM
SPLP Extraction Date	6684	---	LL	---	1312	04/11/2007 05:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1803	---	KC	---	200.7	04/20/2007 05:20:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100328-11
Sample Name: SHOB-34, 45-50'
Sample Date/Time: 10/20/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/23/2007 12:55:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	86	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	71	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	04/27/2007 02:51:00 AM
Electrical Conductivity (SPLP)	297	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.50	mg/l	MRK	0.1	300.0	04/27/2007 02:51:00 AM
Hardness as CaCO3 (SPLP)	11	mg/l	KC	4	2340B	04/30/2007 07:22:00 PM
pH (SPLP)	7.0	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	7.49	---	BH	0.1	20b	05/03/2007 06:53:00 PM
Total Dissolved Solids (SPLP)	318	mg/l	ES	20	160.1	04/18/2007 04:45:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/18/2007 04:44:00 PM
Calcium as Ca (SPLP)	2.4	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Magnesium as Mg (SPLP)	1.3	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Potassium as K (SPLP)	2.3	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Sodium as Na (SPLP)	58	mg/l	KC	0.5	200.7	05/03/2007 06:53:00 PM
Aluminum as Al (SPLP)	0.95	mg/l	AH	0.05	200.7	04/26/2007 08:49:00 PM
Arsenic as As (SPLP)	0.012	mg/l	BH	0.001	200.8	04/26/2007 05:44:00 PM
Barium as Ba (SPLP)	0.29 B	mg/l	BH	0.005	200.8	04/26/2007 05:44:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/03/2007 06:53:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/26/2007 05:44:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 05:44:00 PM
Copper as Cu (SPLP)	0.008	mg/l	BH	0.001	200.8	04/26/2007 05:44:00 PM
Iron as Fe (SPLP)	1.03	mg/l	KC	0.01	200.7	05/03/2007 06:53:00 PM
Iron as Fe (Total, SPLP)	2.5	mg/l	KC	0.01	200.7	04/24/2007 05:58:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 05:44:00 PM
Manganese as Mn (SPLP)	0.011	mg/l	BH	0.005	200.8	04/26/2007 05:44:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 02:23:20 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 08:49:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 05:44:00 PM
Selenium as Se (SPLP)	0.003	mg/l	BH	0.001	200.8	04/26/2007 05:44:00 PM
Uranium as U (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 02:33:00 PM
Vanadium as V (SPLP)	0.04	mg/l	AH	0.01	200.7	04/26/2007 08:49:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100328-11
Sample Name: SHOB-34, 45-50'
Sample Date/Time: 10/20/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.10 B	mg/l	KC	0.01	200.7	05/03/2007 06:53:00 PM
SPLP Extraction Date	6684	---	LL	---	1312	04/11/2007 05:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1803	---	KC	---	200.7	04/20/2007 05:20:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100328-36
Sample Name: SHOB-34, 185-190'
Sample Date/Time: 10/20/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/23/2007 12:55:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	182	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	6	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	159	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	04/27/2007 02:51:00 AM
Electrical Conductivity (SPLP)	344	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.33	mg/l	MRK	0.1	300.0	04/27/2007 02:51:00 AM
Hardness as CaCO3 (SPLP)	<4	mg/l	KC	4	2340B	04/30/2007 07:22:00 PM
pH (SPLP)	9.0	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	20.4	---	BH	0.1	20b	05/03/2007 06:57:00 PM
Total Dissolved Solids (SPLP)	218	mg/l	ES	20	160.1	04/18/2007 04:45:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/18/2007 04:44:00 PM
Calcium as Ca (SPLP)	1.2	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Magnesium as Mg (SPLP)	<0.5	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Potassium as K (SPLP)	2.0	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Sodium as Na (SPLP)	81	mg/l	KC	0.5	200.7	05/03/2007 06:57:00 PM
Aluminum as Al (SPLP)	0.47	mg/l	BH	0.05	200.7	05/03/2007 06:57:00 PM
Arsenic as As (SPLP)	0.009	mg/l	BH	0.001	200.8	04/26/2007 05:50:00 PM
Barium as Ba (SPLP)	0.51 B	mg/l	BH	0.005	200.8	04/26/2007 05:50:00 PM
Boron as B (SPLP)	<0.1	mg/l	KC	0.1	200.7	05/03/2007 06:57:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/26/2007 05:50:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 05:50:00 PM
Copper as Cu (SPLP)	0.004	mg/l	BH	0.001	200.8	04/26/2007 05:50:00 PM
Iron as Fe (SPLP)	0.44	mg/l	KC	0.01	200.7	05/03/2007 06:57:00 PM
Iron as Fe (Total, SPLP)	0.46	mg/l	KC	0.01	200.7	04/24/2007 05:58:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 05:50:00 PM
Manganese as Mn (SPLP)	0.008	mg/l	BH	0.005	200.8	04/26/2007 05:50:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 02:28:00 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 08:53:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 05:50:00 PM
Selenium as Se (SPLP)	0.009	mg/l	BH	0.001	200.8	04/26/2007 05:50:00 PM
Uranium as U (SPLP)	0.004	mg/l	BH	0.001	200.8	04/26/2007 02:35:00 PM
Vanadium as V (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/26/2007 08:53:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100328-36
Sample Name: SHOB-34, 185-190'
Sample Date/Time: 10/20/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.02 B	mg/l	KC	0.01	200.7	05/03/2007 06:57:00 PM
SPLP Extraction Date	6684	---	LL	---	1312	04/11/2007 05:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1803	---	KC	---	200.7	04/20/2007 05:20:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110073-8
Sample Name: SHOB-35, 35-40
Sample Date/Time: 10/25/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/23/2007 12:55:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	116	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	95	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	04/27/2007 07:25:00 AM
Electrical Conductivity (SPLP)	306	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.52	mg/l	MRK	0.1	300.0	04/27/2007 07:25:00 AM
Hardness as CaCO3 (SPLP)	6	mg/l	KC	4	2340B	04/30/2007 07:22:00 PM
pH (SPLP)	7.5	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	11.2	---	KC	0.1	20b	05/03/2007 07:04:00 PM
Total Dissolved Solids (SPLP)	297	mg/l	ES	20	160.1	04/18/2007 04:45:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/18/2007 04:44:00 PM
Calcium as Ca (SPLP)	1.4	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Magnesium as Mg (SPLP)	0.7	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Potassium as K (SPLP)	2.5	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Sodium as Na (SPLP)	65	mg/l	KC	0.5	200.7	05/03/2007 07:04:00 PM
Aluminum as Al (SPLP)	0.48	mg/l	AH	0.05	200.7	04/26/2007 09:00:00 PM
Arsenic as As (SPLP)	0.030	mg/l	BH	0.001	200.8	04/26/2007 06:16:00 PM
Barium as Ba (SPLP)	0.28 B	mg/l	BH	0.005	200.8	04/26/2007 06:16:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/03/2007 07:04:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/26/2007 06:16:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 06:16:00 PM
Copper as Cu (SPLP)	0.009	mg/l	BH	0.001	200.8	04/26/2007 06:16:00 PM
Iron as Fe (SPLP)	1.10	mg/l	KC	0.01	200.7	05/03/2007 07:04:00 PM
Iron as Fe (Total, SPLP)	1.4	mg/l	KC	0.01	200.7	04/24/2007 05:58:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 06:16:00 PM
Manganese as Mn (SPLP)	0.016	mg/l	BH	0.005	200.8	04/26/2007 06:16:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 09:43:29 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 09:00:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/26/2007 06:16:00 PM
Selenium as Se (SPLP)	0.008	mg/l	BH	0.001	200.8	04/26/2007 06:16:00 PM
Uranium as U (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 02:39:00 PM
Vanadium as V (SPLP)	0.08	mg/l	AH	0.01	200.7	04/26/2007 09:00:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110073-8
Sample Name: SHOB-35, 35-40
Sample Date/Time: 10/25/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.12 B	mg/l	KC	0.01	200.7	05/03/2007 07:04:00 PM
SPLP Extraction Date	6684	---	LL	---	1312	04/11/2007 05:00:00 PM
SPLP ICP/AA Batch #/Digest Date	1803	---	KC	---	200.7	04/20/2007 05:10:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110088-20
Sample Name: SHOB-36, 15-20
Sample Date/Time: 10/27/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	28	mg/l	ES	5	305.2	04/27/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	15	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Total as CaCO3 (SPLP)	12	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/13/2007 02:27:00 AM
Electrical Conductivity (SPLP)	1300	umhos/cm	CC	10	2510B	05/14/2007 10:55:00 AM
Fluoride (undistilled) (SPLP)	0.75	mg/l	MRK	0.1	300.0	05/13/2007 02:27:00 AM
Hardness as CaCO3 (SPLP)	480	mg/l	KC	4	2340B	05/11/2007 11:25:00 PM
pH (SPLP)	5.5	S.U.	ES	1.0-13.5	150.1	04/27/2007 11:45:00 AM
Sodium Absorption Ratio (SPLP)	1.92	---	KC	0.1	20b	05/11/2007 11:25:00 PM
Total Dissolved Solids (SPLP)	1200	mg/l	ES	20	160.1	04/24/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/24/2007 08:00:00 AM
Calcium as Ca (SPLP)	119	mg/l	KC	0.5	200.7	05/11/2007 11:25:00 PM
Magnesium as Mg (SPLP)	45	mg/l	KC	0.5	200.7	05/11/2007 11:25:00 PM
Potassium as K (SPLP)	2.8	mg/l	KC	0.5	200.7	05/11/2007 11:25:00 PM
Sodium as Na (SPLP)	97	mg/l	KC	0.5	200.7	05/11/2007 11:25:00 PM
Aluminum as Al (SPLP)	0.06	mg/l	KC	0.05	200.7	05/23/2007 09:50:00 PM
Arsenic as As (SPLP)	0.003	mg/l	BH	0.001	200.8	04/27/2007 07:52:00 PM
Barium as Ba (SPLP)	0.14 J B	mg/l	BH	0.005	200.8	04/27/2007 07:52:00 PM
Boron as B (SPLP)	0.5	mg/l	KC	0.1	200.7	05/23/2007 09:50:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/27/2007 07:52:00 PM
Chromium as Cr (SPLP)	0.003	mg/l	BH	0.001	200.8	04/27/2007 07:52:00 PM
Copper as Cu (SPLP)	0.010	mg/l	BH	0.001	200.8	04/27/2007 07:52:00 PM
Iron as Fe (SPLP)	0.22	mg/l	KC	0.01	200.7	05/23/2007 09:50:00 PM
Iron as Fe (Total, SPLP)	0.48 J	mg/l	AH	0.01	200.7	05/02/2007 06:33:00 PM
Lead as Pb (SPLP)	0.003 B	mg/l	BH	0.001	200.8	04/27/2007 07:52:00 PM
Manganese as Mn (SPLP)	0.009	mg/l	BH	0.005	200.8	04/27/2007 07:52:00 PM
Mercury as Hg (SPLP)	0.00004JB	mg/l	BH	0.00001	200.8	05/09/2007 03:21:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/23/2007 09:50:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/27/2007 07:52:00 PM
Selenium as Se (SPLP)	0.003	mg/l	BH	0.001	200.8	04/27/2007 07:52:00 PM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	05/01/2007 11:13:00 AM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 07:52:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110088-20
Sample Name: SHOB-36, 15-20
Sample Date/Time: 10/27/2006 ---
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.12 B	mg/l	KC	0.01	200.7	05/23/2007 09:50:00 PM
SPLP Extraction Date	6693	---	LL	---	1312	04/17/2007 04:20:00 PM
SPLP ICP/AA Batch #/Digest Date	1811	---	GC	---	200.7	04/27/2007 10:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110088-25
Sample Name: SHOB-36, 40-45
Sample Date/Time: 10/27/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	9	mg/l	ES	5	305.2	04/27/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	14	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Total as CaCO3 (SPLP)	11	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/13/2007 12:56:00 AM
Electrical Conductivity (SPLP)	133	umhos/cm	CC	10	2510B	05/14/2007 10:55:00 AM
Fluoride (undistilled) (SPLP)	0.19	mg/l	MRK	0.1	300.0	05/13/2007 12:56:00 AM
Hardness as CaCO3 (SPLP)	34	mg/l	KC	4	2340B	05/11/2007 11:43:00 AM
pH (SPLP)	7.1	S.U.	ES	1.0-13.5	150.1	04/27/2007 11:45:00 AM
Sodium Absorption Ratio (SPLP)	0.75	---	KC	0.1	20b	05/11/2007 11:43:00 AM
Total Dissolved Solids (SPLP)	94	mg/l	ES	20	160.1	04/24/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/24/2007 08:00:00 AM
Calcium as Ca (SPLP)	8.0	mg/l	KC	0.5	200.7	05/11/2007 11:43:00 PM
Magnesium as Mg (SPLP)	3.4	mg/l	KC	0.5	200.7	05/11/2007 11:43:00 PM
Potassium as K (SPLP)	1.0	mg/l	KC	0.5	200.7	05/11/2007 11:43:00 PM
Sodium as Na (SPLP)	10	mg/l	KC	0.5	200.7	05/11/2007 11:43:00 PM
Aluminum as Al (SPLP)	0.10	mg/l	KC	0.05	200.7	05/23/2007 10:09:00 PM
Arsenic as As (SPLP)	0.001	mg/l	BH	0.001	200.8	04/27/2007 08:04:00 PM
Barium as Ba (SPLP)	0.45 J B	mg/l	BH	0.005	200.8	04/27/2007 08:04:00 PM
Boron as B (SPLP)	<0.1	mg/l	KC	0.1	200.7	05/23/2007 10:09:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/27/2007 08:04:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/27/2007 08:04:00 PM
Copper as Cu (SPLP)	0.002 B	mg/l	BH	0.001	200.8	04/27/2007 08:04:00 PM
Iron as Fe (SPLP)	0.66	mg/l	KC	0.01	200.7	05/23/2007 10:09:00 PM
Iron as Fe (Total, SPLP)	0.97 J	mg/l	AH	0.01	200.7	05/02/2007 06:40:00 PM
Lead as Pb (SPLP)	<0.001 J	mg/l	BH	0.001	200.8	04/27/2007 08:04:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	04/27/2007 08:04:00 PM
Mercury as Hg (SPLP)	0.00005JB	mg/l	BH	0.00001	200.8	05/09/2007 03:30:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/23/2007 10:09:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 08:04:00 PM
Selenium as Se (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/27/2007 08:04:00 PM
Uranium as U (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/01/2007 11:17:00 AM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 08:04:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110088-25
Sample Name: SHOB-36, 40-45
Sample Date/Time: 10/27/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.03 J B	mg/l	KC	0.01	200.7	05/23/2007 10:09:00 PM
SPLP Extraction Date	6693	---	LL	---	1312	04/16/2007 05:07:00 PM
SPLP ICP/AA Batch #/Digest Date	1811	---	GC	---	200.7	04/27/2007 10:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110088-12
Sample Name: SHOB-37, 55-60
Sample Date/Time: 10/27/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	6	mg/l	ES	5	305.2	04/27/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	74	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Total as CaCO3 (SPLP)	61	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/12/2007 10:54:00 PM
Electrical Conductivity (SPLP)	356	umhos/cm	CC	10	2510B	05/14/2007 10:55:00 AM
Fluoride (undistilled) (SPLP)	0.45	mg/l	MRK	0.1	300.0	05/12/2007 10:54:00 PM
Hardness as CaCO3 (SPLP)	4	mg/l	KC	4	2340B	05/11/2007 11:18:00 PM
pH (SPLP)	7.6	S.U.	ES	1.0-13.5	150.1	04/27/2007 11:45:00 AM
Sodium Absorption Ratio (SPLP)	16.2	---	KC	0.1	20b	05/11/2007 11:18:00 PM
Total Dissolved Solids (SPLP)	272	mg/l	ES	20	160.1	04/24/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/24/2007 08:00:00 AM
Calcium as Ca (SPLP)	0.8	mg/l	KC	0.5	200.7	05/11/2007 11:18:00 PM
Magnesium as Mg (SPLP)	0.5	mg/l	KC	0.5	200.7	05/11/2007 11:18:00 PM
Potassium as K (SPLP)	2.8	mg/l	KC	0.5	200.7	05/11/2007 11:18:00 PM
Sodium as Na (SPLP)	75	mg/l	KC	0.5	200.7	05/11/2007 11:18:00 PM
Aluminum as Al (SPLP)	0.37	mg/l	KC	0.05	200.7	05/23/2007 09:43:00 PM
Arsenic as As (SPLP)	0.022	mg/l	BH	0.001	200.8	04/27/2007 07:25:00 PM
Barium as Ba (SPLP)	0.18 B	mg/l	BH	0.005	200.8	04/27/2007 07:25:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/23/2007 09:43:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/27/2007 07:25:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/27/2007 07:25:00 PM
Copper as Cu (SPLP)	0.009 B	mg/l	BH	0.001	200.8	04/27/2007 07:25:00 PM
Iron as Fe (SPLP)	0.35	mg/l	KC	0.01	200.7	05/23/2007 09:43:00 PM
Iron as Fe (Total, SPLP)	0.55	mg/l	AH	0.01	200.7	05/02/2007 06:26:00 PM
Lead as Pb (SPLP)	0.001 B	mg/l	BH	0.001	200.8	04/27/2007 07:25:00 PM
Manganese as Mn (SPLP)	0.011	mg/l	BH	0.005	200.8	04/27/2007 07:25:00 PM
Mercury as Hg (SPLP)	0.00040	mg/l	BH	0.00001	200.8	05/09/2007 03:12:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/23/2007 09:43:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 07:25:00 PM
Selenium as Se (SPLP)	0.007	mg/l	BH	0.001	200.8	04/27/2007 07:25:00 PM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	05/01/2007 11:09:00 AM
Vanadium as V (SPLP)	0.10	mg/l	BH	0.01	200.8	04/27/2007 07:25:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110088-12
Sample Name: SHOB-37, 55-60
Sample Date/Time: 10/27/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.09 B	mg/l	KC	0.01	200.7	05/23/2007 09:43:00 PM
SPLP Extraction Date	6693	---	LL	---	1312	04/16/2007 05:07:00 PM
SPLP ICP/AA Batch #/Digest Date	1811	---	GC	---	200.7	04/27/2007 10:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100344-31
Sample Name: SHOB-38, 15-20'
Sample Date/Time: 10/26/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	15	mg/l	ES	5	305.2	04/23/2007 07:05:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	2 B	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	2 B	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/10/2007 04:13:00 PM
Electrical Conductivity (SPLP)	1070	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.35	mg/l	MRK	0.1	300.0	05/10/2007 04:13:00 PM
Hardness as CaCO3 (SPLP)	200	mg/l	AH	4	2340B	04/26/2007 11:43:00 PM
pH (SPLP)	5.3	S.U.	TD	1.0-13.5	150.1	04/23/2007 08:15:00 AM
Sodium Absorption Ratio (SPLP)	4.05	---	KC	0.1	20b	05/23/2007 07:59:00 PM
Total Dissolved Solids (SPLP)	710	mg/l	RM	20	160.1	04/20/2007 11:50:00 AM
Total Suspended Solids (SPLP)	<4*	mg/l	RM	4	160.2	04/20/2007 11:50:00 AM
Calcium as Ca (SPLP)	41	mg/l	AH	0.5	200.7	04/26/2007 11:43:00 PM
Magnesium as Mg (SPLP)	24	mg/l	AH	0.5	200.7	04/26/2007 11:43:00 PM
Potassium as K (SPLP)	7.0	mg/l	KC	0.5	200.7	04/30/2007 09:55:00 PM
Sodium as Na (SPLP)	132	mg/l	KC	0.5	200.7	05/23/2007 07:59:00 PM
Aluminum as Al (SPLP)	0.07	mg/l	AH	0.05	200.7	04/26/2007 11:43:00 PM
Arsenic as As (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:03:00 PM
Barium as Ba (SPLP)	0.10 B	mg/l	BH	0.005	200.8	04/26/2007 10:03:00 PM
Boron as B (SPLP)	0.1	mg/l	AH	0.1	200.7	04/26/2007 11:43:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/26/2007 10:03:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:03:00 PM
Copper as Cu (SPLP)	0.003	mg/l	BH	0.001	200.8	04/26/2007 10:03:00 PM
Iron as Fe (SPLP)	0.02	mg/l	AH	0.01	200.7	04/26/2007 11:43:00 PM
Iron as Fe (Total, SPLP)	<0.01	mg/l	KC	0.01	200.7	04/24/2007 09:18:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:03:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	04/26/2007 10:03:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 04:30:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 11:43:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 10:03:00 PM
Selenium as Se (SPLP)	0.007	mg/l	BH	0.001	200.8	04/26/2007 10:03:00 PM
Uranium as U (SPLP)	0.003	mg/l	BH	0.001	200.8	05/01/2007 10:25:00 AM
Vanadium as V (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/26/2007 11:43:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100344-31
Sample Name: SHOB-38, 15-20'
Sample Date/Time: 10/26/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.09	mg/l	AH	0.01	200.7	04/26/2007 11:43:00 PM
SPLP Extraction Date	6688	---	LL	---	1312	04/13/2007 04:05:00 PM
SPLP ICP/AA Batch #/Digest Date	1804	---	GC	---	200.7	04/23/2007 08:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100344-36
Sample Name: SHOB-38, 40-45'
Sample Date/Time: 10/26/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	26	mg/l	ES	5	305.2	04/23/2007 07:05:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	2 B	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	1 B	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Chloride as Cl (SPLP)	<1	mg/l	MRK	1	300.0	05/10/2007 06:14:00 PM
Electrical Conductivity (SPLP)	1900	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.11	mg/l	MRK	0.1	300.0	05/10/2007 06:14:00 PM
Hardness as CaCO3 (SPLP)	760	mg/l	KC	4	2340B	04/30/2007 10:04:00 PM
pH (SPLP)	5.2	S.U.	TD	1.0-13.5	150.1	04/23/2007 08:15:00 AM
Sodium Absorption Ratio (SPLP)	2.16	----	KC	0.1	20b	05/23/2007 08:14:00 PM
Total Dissolved Solids (SPLP)	1650	mg/l	RM	20	160.1	04/20/2007 11:50:00 AM
Total Suspended Solids (SPLP)	<4 UJ	mg/l	RM	4	160.2	04/20/2007 11:50:00 AM
Calcium as Ca (SPLP)	193	mg/l	KC	0.5	200.7	04/30/2007 10:04:00 PM
Magnesium as Mg (SPLP)	68	mg/l	KC	0.5	200.7	04/30/2007 10:04:00 PM
Potassium as K (SPLP)	3.1	mg/l	KC	0.5	200.7	04/30/2007 10:04:00 PM
Sodium as Na (SPLP)	137	mg/l	KC	0.5	200.7	05/23/2007 08:14:00 PM
Aluminum as Al (SPLP)	0.37	mg/l	AH	0.05	200.7	04/26/2007 11:58:00 PM
Arsenic as As (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 10:26:00 PM
Barium as Ba (SPLP)	0.27 B	mg/l	BH	0.005	200.8	04/26/2007 10:26:00 PM
Boron as B (SPLP)	0.9	mg/l	AH	0.1	200.7	04/26/2007 11:58:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/26/2007 10:26:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 10:26:00 PM
Copper as Cu (SPLP)	0.003	mg/l	BH	0.001	200.8	04/26/2007 10:26:00 PM
Iron as Fe (SPLP)	0.17	mg/l	AH	0.01	200.7	04/26/2007 11:58:00 PM
Iron as Fe (Total, SPLP)	0.20	mg/l	KC	0.01	200.7	04/24/2007 09:33:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:26:00 PM
Manganese as Mn (SPLP)	1.16	mg/l	BH	0.005	200.8	04/26/2007 10:26:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 04:48:38 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 11:58:00 PM
Nickel as Ni (SPLP)	0.02	mg/l	BH	0.01	200.8	04/26/2007 10:26:00 PM
Selenium as Se (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 10:26:00 PM
Uranium as U (SPLP)	<0.001	mg/l	BH	0.001	200.8	05/01/2007 10:32:00 AM
Radium as V (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/26/2007 11:58:00 PM

Client: GOLDER ASSOCIATES, INC.
 Project Name: SOUTH HEART OVERBURDEN
 Project No.: 063-2174
 Laboratory No.: 2000100344-36
 Sample Name: SHOB-38, 40-45'
 Sample Date/Time: 10/26/2006 ----
 Collected by: RYAN TOLENE
 Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.10	mg/l	AH	0.01	200.7	04/26/2007 11:58:00 PM
SPLP Extraction Date	6688	---	LL	---	1312	04/13/2007 04:05:00 PM
SPLP ICP/AA Batch #/Digest Date	1804	---	GC	---	200.7	04/23/2007 08:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110088-37
Sample Name: SHOB-40, 10-15
Sample Date/Time: 10/27/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	24	mg/l	ES	5	305.2	04/27/2007 08:00:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	2	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Alkalinity Total as CaCO3 (SPLP)	1	mg/l	ES	1	2320B	05/01/2007 02:30:00 PM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/13/2007 01:57:00 AM
Electrical Conductivity (SPLP)	237	umhos/cm	CC	10	2510B	05/14/2007 10:55:00 AM
Fluoride (undistilled) (SPLP)	0.38	mg/l	MRK	0.1	300.0	05/13/2007 01:57:00 AM
Hardness as CaCO3 (SPLP)	29	mg/l	KC	4	2340B	05/11/2007 11:51:00 PM
pH (SPLP)	5.4	S.U.	ES	1.0-13.5	150.1	04/27/2007 11:45:00 AM
Sodium Absorption Ratio (SPLP)	2.25	---	KC	0.1	20b	05/11/2007 11:51:00 PM
Total Dissolved Solids (SPLP)	198	mg/l	ES	20	160.1	04/24/2007 08:00:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/24/2007 08:00:00 AM
Calcium as Ca (SPLP)	3.8	mg/l	KC	0.5	200.7	05/11/2007 11:51:00 PM
Magnesium as Mg (SPLP)	4.8	mg/l	KC	0.5	200.7	05/11/2007 11:51:00 PM
Potassium as K (SPLP)	3.1	mg/l	KC	0.5	200.7	05/11/2007 11:51:00 PM
Sodium as Na (SPLP)	28	mg/l	KC	0.5	200.7	05/11/2007 11:51:00 PM
Aluminum as Al (SPLP)	0.34	mg/l	KC	0.05	200.7	05/23/2007 10:16:00 PM
Arsenic as As (SPLP)	0.001	mg/l	BH	0.001	200.8	04/27/2007 08:15:00 PM
Barium as Ba (SPLP)	0.22 B	mg/l	BH	0.005	200.8	04/27/2007 08:15:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/23/2007 10:16:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/27/2007 08:15:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/27/2007 08:15:00 PM
Copper as Cu (SPLP)	0.004 B	mg/l	BH	0.001	200.8	04/27/2007 08:15:00 PM
Iron as Fe (SPLP)	0.40	mg/l	KC	0.01	200.7	05/23/2007 10:16:00 PM
Iron as Fe (Total, SPLP)	1.48	mg/l	AH	0.01	200.7	05/02/2007 06:48:08 PM
Lead as Pb (SPLP)	0.001 B	mg/l	BH	0.001	200.8	04/27/2007 08:15:00 PM
Manganese as Mn (SPLP)	0.005	mg/l	BH	0.005	200.8	04/27/2007 08:15:00 PM
Mercury as Hg (SPLP)	0.00001B	mg/l	BH	0.00001	200.8	05/09/2007 03:40:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/23/2007 10:16:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 08:15:00 PM
Selenium as Se (SPLP)	0.001	mg/l	BH	0.001	200.8	04/27/2007 08:15:00 PM
Uranium as U (SPLP)	0.001	mg/l	BH	0.001	200.8	05/01/2007 11:21:00 AM
Vanadium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/27/2007 08:15:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110088-37
Sample Name: SHOB-40, 10-15
Sample Date/Time: 10/27/2006 ---
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.12 B	mg/l	KC	0.01	200.7	05/23/2007 10:16:00 PM
SPLP Extraction Date	6693	---	LL	---	1312	04/16/2007 05:07:00 PM
SPLP ICP/AA Batch #/Digest Date	1811	---	GC	---	200.7	04/27/2007 10:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100325-9
Sample Name: SHOB-41, 40-45'
Sample Date/Time: 10/14/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/20/2007 07:28:02 PM
Alkalinity Bicarb. as HCO3 (SPLP)	36	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	30	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Chloride as Cl (SPLP)	2 B	mg/l	MRK	1	300.0	04/18/2007 09:02:00 PM
Electrical Conductivity (SPLP)	384	umhos/cm	TD	10	2510B	04/20/2007 02:00:00 PM
Fluoride (undistilled) (SPLP)	0.68 J B	mg/l	MRK	0.1	300.0	04/18/2007 09:02:00 PM
Hardness as CaCO3 (SPLP)	11	mg/l	AH	4	2340B	04/26/2007 07:06:00 PM
pH (SPLP)	7.0	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	8.11	----	BH	0.1	20b	05/18/2007 01:39:00 PM
Total Dissolved Solids (SPLP)	260	mg/l	ES	20	160.1	04/13/2007 09:35:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/13/2007 09:35:00 AM
Calcium as Ca (SPLP)	2.6 B	mg/l	AH	0.5	200.7	04/26/2007 07:06:00 PM
Magnesium as Mg (SPLP)	1.2	mg/l	AH	0.5	200.7	04/26/2007 07:06:00 PM
Potassium as K (SPLP)	2.2	mg/l	KC	0.5	200.7	04/30/2007 07:15:00 PM
Sodium as Na (SPLP)	63	mg/l	BH	0.5	200.7	05/18/2007 01:39:00 PM
Aluminum as Al (SPLP)	1.74 J	mg/l	AH	0.05	200.7	04/26/2007 07:06:00 PM
Arsenic as As (SPLP)	0.014	mg/l	BH	0.001	200.8	04/18/2007 08:14:00 PM
Barium as Ba (SPLP)	0.23 J B	mg/l	BH	0.005	200.8	04/18/2007 08:14:00 PM
Boron as B (SPLP)	0.8	mg/l	AH	0.1	200.7	04/26/2007 07:06:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/18/2007 08:14:00 PM
Chromium as Cr (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/18/2007 08:14:00 PM
Copper as Cu (SPLP)	0.009 J	mg/l	BH	0.001	200.8	04/18/2007 08:14:00 PM
Iron as Fe (SPLP)	0.62	mg/l	AH	0.01	200.7	04/26/2007 07:06:00 PM
Iron as Fe (Total, SPLP)	0.79 J	mg/l	KC	0.01	200.7	04/24/2007 04:00:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/18/2007 08:14:00 PM
Manganese as Mn (SPLP)	0.008	mg/l	BH	0.005	200.8	04/18/2007 08:14:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/24/2007 12:09:16 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 07:06:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/18/2007 08:14:00 PM
Selenium as Se (SPLP)	0.006	mg/l	BH	0.001	200.8	04/18/2007 08:14:00 PM
Uranium as U (SPLP)	<0.001	mg/l	BH	0.001	200.7	04/26/2007 01:41:00 PM
Vanadium as V (SPLP)	0.03	mg/l	BH	0.01	200.8	04/18/2007 08:14:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100325-9
Sample Name: SHOB-41, 40-45'
Sample Date/Time: 10/14/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.12 J B	mg/l	AH	0.01	200.7	04/26/2007 07:06:00 PM
SPLP Extraction Date	6681	----	LL	----	1312	04/09/2007 05:35:00 PM
SPLP ICP/AA Batch #/Digest Date	1802	----	BH	----	200.7	04/20/2007 03:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Project Name: SOUTH HEART OVERBURDEN
 Project No.: 063-2174
 Laboratory No.: 2006100325-17
 Sample Name: SHOB-41, 85-90'
 Sample Date/Time: 10/14/2006 08:16:
 Collected by: RYAN TOLENE
 Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<1	mg/l	RM	1	305.2	08/21/2007 01:16:55 PM
Alkalinity Bicarb. as HCO ₃ (SPLP)	67	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Alkalinity Carbonate as CO ₃ (SPLP)	16	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Alkalinity Total as CaCO ₃ (SPLP)	82	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Chloride as Cl (SPLP)	1	mg/l	ES	1	300.0	08/25/2007 07:05:00 PM
Electrical Conductivity (SPLP)	248	umhos/cm	LL	10	2510B	08/10/2007 09:05:00 AM
Fluoride (undistilled) (SPLP)	0.26	mg/l	ES	0.1	300.0	08/25/2007 07:05:00 PM
Hardness as CaCO ₃ (SPLP)	6	mg/l	BH	4	2340B	08/20/2007 11:57:00 AM
pH (SPLP)	9.6	S.U.	LL	1.0-13.5	150.1	08/08/2007 03:50:00 PM
Sodium Absorption Ratio (SPLP)	8.50	—	BH	0.1	20b	08/20/2007 11:57:00 AM
Total Dissolved Solids (SPLP)	244HT	mg/l	RM	10	2540C	08/16/2007 01:54:00 PM
Total Suspended Solids (SPLP)	29HT	mg/l	RM	19	2540D	08/16/2007 02:22:00 PM
Calcium as Ca (SPLP)	1.1	mg/l	BH	0.5	200.7	08/20/2007 11:57:00 AM
Magnesium as Mg (SPLP)	0.8	mg/l	BH	0.5	200.7	08/20/2007 11:57:00 AM
Potassium as K (SPLP)	1.3	mg/l	BH	0.5	200.7	08/20/2007 11:57:00 AM
Sodium as Na (SPLP)	48	mg/l	BH	0.5	200.7	08/20/2007 11:57:00 AM
Aluminum as Al (SPLP)	0.56	mg/l	KC	0.05	200.7	08/17/2007 10:45:00 PM
Arsenic as As (SPLP)	0.034	mg/l	DK	0.001	200.8	08/29/2007 12:47:00 PM
Barium as Ba (SPLP)	0.019	mg/l	DK	0.005	200.8	08/29/2007 12:47:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	08/17/2007 10:45:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	DK	0.0001	200.8	08/29/2007 12:47:00 PM
Chromium as Cr (SPLP)	0.003	mg/l	DK	0.001	200.8	08/23/2007 09:03:00 PM
Copper as Cu (SPLP)	0.013	mg/l	DK	0.001	200.8	08/23/2007 09:03:00 PM
Iron as Fe (SPLP)	0.92	mg/l	KC	0.01	200.7	08/17/2007 10:45:00 PM
Iron as Fe (Total, SPLP)	4.53	mg/l	BH	0.01	200.7	08/23/2007 01:58:00 PM
Lead as Pb (SPLP)	0.006	mg/l	DK	0.001	200.8	08/29/2007 12:47:00 PM
Manganese as Mn (SPLP)	0.024	mg/l	KC	0.005	200.7	08/17/2007 10:45:00 PM
Mercury as Hg (SPLP)	0.00001	mg/l	DK	0.00001	200.8	08/27/2007 02:36:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	DK	0.05	200.8	08/29/2007 12:47:00 PM
Nickel as Ni (SPLP)	0.02	mg/l	DK	0.01	200.8	08/23/2007 09:03:00 PM
Selenium as Se (SPLP)	0.004	mg/l	DK	0.001	200.8	08/29/2007 12:47:00 PM
Uranium as U (SPLP)	0.002	mg/l	DK	0.001	200.8	08/23/2007 09:03:00 PM
Vanadium as V (SPLP)	0.09	mg/l	DK	0.01	200.8	08/23/2007 09:03:00 PM

Client: CALVERT ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100325-17
Sample Name: SHOB-41, 85-90'
Sample Date/Time: 10/14/2006 08:16:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.05 B	mg/l	DK	0.01	200.8	08/23/2007 09:03:00 PM
SPLP Extraction Date	6750	---	LL	---	1312	08/07/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1048	---	JH	---	200.7	08/20/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100325-18
Sample Name: SHOB-41, 90-95'
Sample Date/Time: 10/14/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/23/2007 12:55:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	83	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	68	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	04/26/2007 08:16:00 PM
Electrical Conductivity (SPLP)	333	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.22	mg/l	MRK	0.1	300.0	04/26/2007 08:16:00 PM
Hardness as CaCO3 (SPLP)	4	mg/l	KC	4	2340B	04/30/2007 07:22:00 PM
pH (SPLP)	7.1	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	14.8	---	KC	0.1	20b	05/03/2007 05:52:00 PM
Total Dissolved Solids (SPLP)	248	mg/l	ES	20	160.1	04/18/2007 04:45:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/18/2007 04:44:00 PM
Calcium as Ca (SPLP)	1.8	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Magnesium as Mg (SPLP)	<0.5	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Potassium as K (SPLP)	2.3	mg/l	KC	0.5	200.7	04/30/2007 07:22:00 PM
Sodium as Na (SPLP)	72	mg/l	KC	0.5	200.7	05/03/2007 05:52:00 PM
Aluminum as Al (SPLP)	0.76	mg/l	AH	0.05	200.7	04/26/2007 08:09:00 PM
Arsenic as As (SPLP)	0.008	mg/l	BH	0.001	200.8	04/18/2007 08:32:00 PM
Barium as Ba (SPLP)	0.20 B	mg/l	BH	0.005	200.8	04/18/2007 08:32:00 PM
Boron as B (SPLP)	0.3	mg/l	KC	0.1	200.7	05/03/2007 05:52:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/18/2007 08:32:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/18/2007 08:32:00 PM
Copper as Cu (SPLP)	0.008	mg/l	BH	0.001	200.8	04/18/2007 08:32:00 PM
Iron as Fe (SPLP)	0.88	mg/l	KC	0.01	200.7	05/03/2007 05:52:00 PM
Iron as Fe (Total, SPLP)	0.63	mg/l	KC	0.01	200.7	04/24/2007 05:58:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/18/2007 08:32:00 PM
Manganese as Mn (SPLP)	0.012	mg/l	BH	0.005	200.8	04/18/2007 08:32:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 01:16:02 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 08:09:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/18/2007 08:32:00 PM
Selenium as Se (SPLP)	0.006	mg/l	BH	0.001	200.8	04/18/2007 08:32:00 PM
Uranium as U (SPLP)	0.003	mg/l	BH	0.001	200.8	04/26/2007 02:07:00 PM
Vanadium as V (SPLP)	0.02	mg/l	AH	0.01	200.7	04/18/2007 08:09:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100325-18
Sample Name: SHOB-41, 90-95'
Sample Date/Time: 10/14/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.14 B	mg/l	KC	0.01	200.7	05/03/2007 05:52:00 PM
SPLP Extraction Date	6684	---	LL	---	1312	04/10/2007 04:50:00 PM
SPLP ICP/AA Batch #/Digest Date	1803	---	KC	---	200.7	04/20/2007 05:10:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100325-19
Sample Name: SHOB-41, 95-100'
Sample Date/Time: 10/14/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/23/2007 12:55:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	136	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	3	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	116	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	04/26/2007 08:16:00 PM
Electrical Conductivity (SPLP)	275	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.18	mg/l	MRK	0.1	300.0	04/26/2007 08:16:00 PM
Hardness as CaCO3 (SPLP)	8	mg/l	KC	4	2340B	05/03/2007 05:58:00 PM
pH (SPLP)	9.2	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	9.01	---	KC	0.1	20b	05/03/2007 05:58:00 PM
Total Dissolved Solids (SPLP)	165	mg/l	ES	20	160.1	04/18/2007 04:45:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/18/2007 04:44:00 PM
Calcium as Ca (SPLP)	2.1	mg/l	KC	0.5	200.7	05/03/2007 05:58:00 PM
Magnesium as Mg (SPLP)	0.7	mg/l	KC	0.5	200.7	05/03/2007 05:58:00 PM
Potassium as K (SPLP)	2.2	mg/l	KC	0.5	200.7	05/03/2007 05:58:00 PM
Sodium as Na (SPLP)	59	mg/l	KC	0.5	200.7	05/03/2007 05:58:00 PM
Aluminum as Al (SPLP)	0.15	mg/l	KC	0.05	200.7	05/03/2007 05:58:00 PM
Arsenic as As (SPLP)	0.011	mg/l	BH	0.001	200.8	04/26/2007 04:42:00 PM
Barium as Ba (SPLP)	0.39B	mg/l	BH	0.005	200.8	04/26/2007 04:42:00 PM
Boron as B (SPLP)	<0.1	mg/l	KC	0.1	200.7	05/03/2007 05:58:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/26/2007 04:42:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 04:42:00 PM
Copper as Cu (SPLP)	0.004	mg/l	BH	0.001	200.8	04/26/2007 04:42:00 PM
Iron as Fe (SPLP)	0.07	mg/l	KC	0.01	200.7	05/03/2007 05:58:00 PM
Iron as Fe (Total, SPLP)	0.04	mg/l	KC	0.01	200.7	04/24/2007 05:58:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 04:42:00 PM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	04/26/2007 04:42:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 01:20:44 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.7	05/03/2007 05:58:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 04:42:00 PM
Selenium as Se (SPLP)	0.003	mg/l	BH	0.001	200.8	04/26/2007 04:42:00 PM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 02:08:00 PM
Vanadium as V (SPLP)	0.01	mg/l	KC	0.01	200.7	05/03/2007 05:58:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100325-19
Sample Name: SHOB-41, 95-100'
Sample Date/Time: 10/14/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.02 B	mg/l	KC	0.01	200.7	05/03/2007 05:58:00 PM
SPLP Extraction Date	6684	---	LL	---	1312	04/10/2007 04:50:00 PM
SPLP ICP/AA Batch #/Digest Date	1803	---	KC	---	200.7	04/20/2007 05:10:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100325-28
Sample Name: SHOB-41, 140-145'
Sample Date/Time: 10/14/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	11	mg/l	ES	5	305.2	04/23/2007 12:55:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	48	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	39	mg/l	TD	1	2320B	04/23/2007 01:00:00 PM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	04/26/2007 08:16:00 PM
Electrical Conductivity (SPLP)	220	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.32	mg/l	MRK	0.1	300.0	04/26/2007 08:16:00 PM
Hardness as CaCO3 (SPLP)	5	mg/l	KC	4	2340B	05/03/2007 06:02:00 PM
pH (SPLP)	6.9	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	8.53	---	KC	0.1	20b	05/03/2007 06:02:00 PM
Total Dissolved Solids (SPLP)	206	mg/l	ES	20	160.1	04/18/2007 04:45:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/18/2007 04:44:00 PM
Calcium as Ca (SPLP)	0.7	mg/l	KC	0.5	200.7	05/03/2007 06:02:00 PM
Magnesium as Mg (SPLP)	0.8	mg/l	KC	0.5	200.7	05/03/2007 06:02:00 PM
Potassium as K (SPLP)	1.7	mg/l	KC	0.5	200.7	05/03/2007 06:02:00 PM
Sodium as Na (SPLP)	44	mg/l	KC	0.5	200.7	05/03/2007 06:02:00 PM
Aluminum as Al (SPLP)	3.14 J	mg/l	KC	0.05	200.7	05/03/2007 06:02:00 PM
Arsenic as As (SPLP)	0.014	mg/l	BH	0.001	200.8	04/18/2007 08:38:00 PM
Barium as Ba (SPLP)	0.15B	mg/l	BH	0.005	200.8	04/18/2007 08:38:00 PM
Boron as B (SPLP)	0.2	mg/l	KC	0.1	200.7	05/03/2007 06:02:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/18/2007 08:38:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/18/2007 08:38:00 PM
Copper as Cu (SPLP)	0.016	mg/l	BH	0.001	200.8	04/18/2007 08:38:00 PM
Iron as Fe (SPLP)	1.17	mg/l	KC	0.01	200.7	05/03/2007 06:02:00 PM
Iron as Fe (Total, SPLP)	1.3	mg/l	KC	0.01	200.7	04/24/2007 05:58:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	04/18/2007 08:38:00 PM
Manganese as Mn (SPLP)	0.006	mg/l	BH	0.005	200.8	04/18/2007 08:38:00 PM
Mercury as Hg (SPLP)	0.00002J	mg/l	BH	0.00001	200.8	04/25/2007 01:25:26 AM
Molybdenum as Mo (SPLP)	<0.05	mg/l	KC	0.05	200.8	05/03/2007 06:02:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/18/2007 08:38:00 PM
Selenium as Se (SPLP)	0.001	mg/l	BH	0.001	200.8	04/18/2007 08:38:00 PM
Uranium as U (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 02:10:00 PM
Zinc as Zn (SPLP)	0.02	mg/l	KC	0.01	200.7	05/03/2007 06:02:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100325-28
Sample Name: SHOB-41, 140-145'
Sample Date/Time: 10/14/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.09 B	mg/l	KC	0.01	200.7	05/03/2007 06:02:00 PM
SPLP Extraction Date	6684	---	LL	---	1312	04/10/2007 04:50:00 PM
SPLP ICP/AA Batch #/Digest Date	1803	----	KC	----	200.7	04/20/2007 05:10:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: SOUTH HEART OVERBURDEN
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100325-35
Sample Name: SHOB-41, 175-180'
Sample Date/Time: 10/14/2006 08:42:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<1	mg/l	RM	1	305.2	08/21/2007 01:15:22 PM
Alkalinity Bicarb. as HCO ₃ (SPLP)	154	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Alkalinity Carbonate as CO ₃ (SPLP)	10	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Alkalinity Total as CaCO ₃ (SPLP)	143	mg/l	LL	1	2320B	08/22/2007 03:00:00 PM
Chloride as Cl (SPLP)	<1	mg/l	ES	1	300.0	08/25/2007 07:05:00 PM
Electrical Conductivity (SPLP)	384	umhos/cm	LL	10	2510B	08/10/2007 09:05:00 AM
Fluoride (undistilled) (SPLP)	0.25	mg/l	ES	0.1	300.0	08/25/2007 07:05:00 PM
Hardness as CaCO ₃ (SPLP)	10	mg/l	BH	4	2340B	08/20/2007 12:00:00 PM
pH (SPLP)	9.2	S.U.	LL	1.0-13.5	150.1	08/08/2007 03:50:00 PM
Sodium Absorption Ratio (SPLP)	11.6	----	BH	0.1	20b	08/20/2007 12:00:00 PM
Total Dissolved Solids (SPLP)	268HT	mg/l	RM	10	2540C	08/16/2007 01:54:00 PM
Total Suspended Solids (SPLP)	<4HT	mg/l	RM	4	2540D	08/16/2007 02:22:00 PM
Calcium as Ca (SPLP)	2.5	mg/l	BH	0.5	200.7	08/20/2007 12:00:00 PM
Magnesium as Mg (SPLP)	0.8	mg/l	BH	0.5	200.7	08/20/2007 12:00:00 PM
Potassium as K (SPLP)	2.4	mg/l	BH	0.5	200.7	08/20/2007 12:00:00 PM
Sodium as Na (SPLP)	82	mg/l	BH	0.5	200.7	08/20/2007 12:00:00 PM
Aluminum as Al (SPLP)	0.46	mg/l	KC	0.05	200.7	08/17/2007 10:49:00 PM
Arsenic as As (SPLP)	0.027	mg/l	DK	0.001	200.8	08/29/2007 12:52:00 PM
Barium as Ba (SPLP)	0.13	mg/l	DK	0.005	200.8	08/29/2007 12:52:00 PM
Boron as B (SPLP)	0.3	mg/l	KC	0.1	200.7	08/17/2007 10:49:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	DK	0.0001	200.8	08/29/2007 12:52:00 PM
Chromium as Cr (SPLP)	0.005	mg/l	DK	0.001	200.8	08/23/2007 09:09:00 PM
Copper as Cu (SPLP)	0.016	mg/l	DK	0.001	200.8	08/23/2007 09:09:00 PM
Iron as Fe (SPLP)	0.41	mg/l	KC	0.01	200.7	08/17/2007 10:49:00 PM
Iron as Fe (Total, SPLP)	0.49	mg/l	BH	0.01	200.7	08/23/2007 02:02:00 PM
Lead as Pb (SPLP)	0.003	mg/l	DK	0.001	200.8	08/29/2007 12:52:00 PM
Manganese as Mn (SPLP)	0.011	mg/l	KC	0.005	200.7	08/17/2007 10:49:00 PM
Mercury as Hg (SPLP)	0.00004	mg/l	DK	0.00001	200.8	08/27/2007 02:41:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	DK	0.05	200.8	08/29/2007 12:52:00 PM
Nickel as Ni (SPLP)	0.03	mg/l	DK	0.01	200.8	08/23/2007 09:09:00 PM
Selenium as Se (SPLP)	0.009	mg/l	DK	0.001	200.8	08/29/2007 12:52:00 PM
Uranium as U (SPLP)	0.005	mg/l	DK	0.001	200.8	08/23/2007 09:09:00 PM
Vanadium as V (SPLP)	0.07	mg/l	DK	0.01	200.8	08/23/2007 09:09:00 PM

ern Analytical Laboratories, Inc.

Client: GOLDEN ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100325-35
Sample Name: SHOB-41, 175-180'
Sample Date/Time: 10/14/2006 08:42:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.06 B	mg/l	DK	0.01	200.8	08/23/2007 09:09:00 PM
SPLP Extraction Date	6750	—	LL	—	1312	08/07/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1048	—	JH	—	200.7	08/20/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110073-41
Sample Name: SHOB-43, 45-50
Sample Date/Time: 10/25/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO ₃ (SPLP)	<5	mg/l	ES	5	305.2	04/23/2007 07:05:00 PM
Alkalinity Bicarb. as HCO ₃ (SPLP)	69	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Carbonate as CO ₃ (SPLP)	0	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Total as CaCO ₃ (SPLP)	57	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/10/2007 06:05:00 AM
Electrical Conductivity (SPLP)	523	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.62	mg/l	MRK	0.1	300.0	05/10/2007 06:05:00 AM
Hardness as CaCO ₃ (SPLP)	13	mg/l	AH	4	2340B	04/26/2007 10:11:00 PM
pH (SPLP)	7.6	S.U.	TD	1.0-13.5	150.1	04/23/2007 08:15:00 AM
Sodium Absorption Ratio (SPLP)	10.3	---	KC	0.1	20b	05/23/2007 08:30:00 PM
Total Dissolved Solids (SPLP)	458	mg/l	RM	20	160.1	04/20/2007 11:50:00 AM
Total Suspended Solids (SPLP)	4 J	mg/l	RM	4	160.2	04/20/2007 11:50:00 AM
Calcium as Ca (SPLP)	2.6	mg/l	AH	0.5	200.7	04/26/2007 10:11:00 PM
Magnesium as Mg (SPLP)	1.7	mg/l	AH	0.5	200.7	04/26/2007 10:11:00 PM
Potassium as K (SPLP)	2.8	mg/l	KC	0.5	200.7	04/30/2006 09:02:00 PM
Sodium as Na (SPLP)	87	mg/l	KC	0.5	200.7	05/23/2006 08:30:00 PM
Aluminum as Al (SPLP)	1.12	mg/l	AH	0.05	200.7	04/26/2007 10:11:00 PM
Arsenic as As (SPLP)	0.014	mg/l	BH	0.001	200.8	04/26/2007 07:46:00 PM
Barium as Ba (SPLP)	0.83	mg/l	BH	0.005	200.8	04/26/2007 07:46:00 PM
Boron as B (SPLP)	0.3	mg/l	AH	0.1	200.7	04/26/2007 10:11:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/26/2007 07:46:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 07:46:00 PM
Copper as Cu (SPLP)	0.019	mg/l	BH	0.001	200.8	04/26/2007 07:46:00 PM
Iron as Fe (SPLP)	1.00	mg/l	AH	0.01	200.7	04/26/2007 10:11:00 PM
Iron as Fe (Total, SPLP)	4.44	mg/l	KC	0.01	200.7	04/24/2007 09:59:00 PM
Lead as Pb (SPLP)	0.004	mg/l	BH	0.001	200.8	04/26/2007 07:46:00 PM
Manganese as Mn (SPLP)	0.046	mg/l	BH	0.005	200.8	04/26/2007 07:46:00 PM
Mercury as Hg (SPLP)	0.0003	mg/l	BH	0.00001	200.8	04/25/2007 02:38:51 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 10:11:00 PM
Nickel as Ni (SPLP)	0.04	mg/l	BH	0.01	200.8	04/26/2007 07:46:00 PM
Selenium as Se (SPLP)	0.005	mg/l	BH	0.001	200.8	04/26/2007 07:46:00 PM
Uranium as U (SPLP)	0.001	mg/l	BH	0.001	200.8	05/01/2007 09:42:00 AM
Vanadium as V (SPLP)	0.02	mg/l	AH	0.01	200.7	04/26/2007 10:11:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110073-41
Sample Name: SHOB-43, 45-50
Sample Date/Time: 10/25/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.28	mg/l	AH	0.01	200.7	04/26/2007 10:11:00 PM
SPLP Extraction Date	6688	----	LL	----	1312	04/12/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1804	----	GC	----	200.7	04/23/2008 08:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.

Project Name: SOUTH HEART POWER

Project No.: 063-2174

Laboratory No.: 2000100156-6

Sample Name: SHOB-44 @ 25-30

Sample Date/Time: 10/11/2006 12:38:

Collected by: RYAN TOLENE

Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5 J	mg/l	ES	5	305.2	04/10/2007 08:08:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	53 J	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	2 J	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	47 J	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	04/09/2007 01:49:00 PM
Electrical Conductivity (SPLP)	193 J	umhos/cm	TD	10	2510B	04/09/2007 10:30:00 AM
Fluoride (undistilled) (SPLP)	0.27	mg/l	MRK	0.1	300.0	04/09/2007 01:49:00 PM
Hardness as CaCO3 (SPLP)	37	mg/l	BH	4	2340B	04/11/2007 01:08:00 PM
pH (SPLP)	8.8 J	S.U.	TD	1.0-13.5	150.1	04/09/2007 12:30:00 PM
Sodium Absorption Ratio (SPLP)	1.51	---	BH	0.1	20b	04/11/2007 01:08:00 PM
Total Dissolved Solids (SPLP)	112 J	mg/l	ES	20	160.1	04/09/2006 12:35:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/09/2007 12:35:00 PM
Calcium as Ca (SPLP)	7.6	mg/l	BH	0.5	200.7	04/11/2007 01:08:00 PM
Magnesium as Mg (SPLP)	4.3	mg/l	BH	0.5	200.7	04/11/2007 01:08:00 PM
Potassium as K (SPLP)	2.4	mg/l	BH	0.5	200.7	04/11/2007 01:08:00 PM
Sodium as Na (SPLP)	21	mg/l	BH	0.5	200.7	04/11/2007 01:08:00 PM
Aluminum as Al (SPLP)	0.12 J	mg/l	BH	0.05	200.7	05/15/2007 01:57:00 PM
Arsenic as As (SPLP)	0.001	mg/l	BH	0.001	200.8	04/10/2007 10:54:00 AM
Barium as Ba (SPLP)	0.31	mg/l	BH	0.005	200.8	04/10/2007 10:54:00 AM
Boron as B (SPLP)	0.1 B	mg/l	BH	0.1	200.7	04/10/2007 04:34:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/10/2007 10:54:00 AM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/10/2007 10:54:00 AM
Copper as Cu (SPLP)	0.002 B	mg/l	BH	0.001	200.8	04/10/2007 10:54:00 AM
Iron as Fe (SPLP)	0.20	mg/l	BH	0.01	200.7	05/15/2007 01:57:00 PM
Iron as Fe (Total, SPLP)	0.12 J	mg/l	BH	0.01	200.7	04/13/2007 02:45:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/10/2007 10:54:00 AM
Manganese as Mn (SPLP)	<0.005	mg/l	BH	0.005	200.8	04/10/2007 10:54:00 AM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/24/2007 07:33:00 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	BH	0.05	200.8	04/10/2007 10:54:00 AM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/10/2007 10:54:00 AM
Selenium as Se (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/10/2007 10:54:00 AM
Uranium as U (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/12/2007 10:00:00 AM
Radium as V (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/10/2007 10:54:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER
Project No.: 063-2174
Laboratory No.: 2000100156-6
Sample Name: SHOB-44 @ 25-30
Sample Date/Time: 10/11/2006 12:38:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.03 J B	mg/l	BH	0.01	200.8	04/10/2007 10:54:00 AM
SPLP Extraction Date	6677	---	LL	---	1312	04/04/2007 06:50:00 PM
SPLP ICP/AA Batch #/Digest Date	1770	---	GC	---	200.7	04/11/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100191-1
Sample Name: SHOB-44 @ 75-80'
Sample Date/Time: 10/11/2007 00:00:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/10/2007 08:08:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	188	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	1	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	155	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	04/10/2007 11:06:00 AM
Electrical Conductivity (SPLP)	424	umhos/cm	TD	10	2510B	04/09/2007 10:30:00 AM
Fluoride (undistilled) (SPLP)	0.64	mg/l	MRK	0.1	300.0	04/10/2007 11:06:00 AM
Hardness as CaCO3 (SPLP)	13	mg/l	BH	4	2340B	04/11/2007 01:56:00 PM
pH (SPLP)	8.4	S.U.	TD	1.0-13.5	150.1	04/09/2007 12:30:00 PM
Sodium Absorption Ratio (SPLP)	10.2	—	BH	0.1	20b	04/11/2007 01:56:00 PM
Total Dissolved Solids (SPLP)	256	mg/l	ES	20	160.1	04/09/2006 12:35:00 PM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/09/2007 12:35:00 PM
Calcium as Ca (SPLP)	3.3B	mg/l	BH	0.5	200.7	04/11/2007 01:56:00 PM
Magnesium as Mg (SPLP)	1.1	mg/l	BH	0.5	200.7	04/11/2007 01:56:00 PM
Potassium as K (SPLP)	3.0	mg/l	BH	0.5	200.7	04/11/2007 01:56:00 PM
Sodium as Na (SPLP)	84	mg/l	BH	0.5	200.7	04/11/2007 01:56:00 PM
Aluminum as Al (SPLP)	1.08	mg/l	BH	0.05	200.7	05/15/2007 03:22:00 PM
Arsenic as As (SPLP)	0.01	mg/l	AH	0.001	200.8	04/10/2007 01:06:00 PM
Barium as Ba (SPLP)	0.24 B	mg/l	AH	0.005	200.8	04/10/2007 01:06:00 PM
Boron as B (SPLP)	0.3 B	mg/l	BH	0.1	200.7	04/10/2007 05:52:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	AH	0.0001	200.8	04/10/2007 01:06:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	AH	0.001	200.8	04/10/2007 01:06:00 PM
Copper as Cu (SPLP)	0.008 B	mg/l	AH	0.001	200.8	04/10/2007 01:06:00 PM
Iron as Fe (SPLP)	0.78	mg/l	BH	0.01	200.7	05/15/2007 03:22:00 PM
Iron as Fe (Total, SPLP)	0.86	mg/l	BH	0.01	200.7	04/13/2007 04:02:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	AH	0.001	200.8	04/10/2007 01:06:00 PM
Manganese as Mn (SPLP)	0.046	mg/l	AH	0.005	200.8	04/10/2007 01:06:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/24/2007 09:15:35 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.8	04/10/2007 01:06:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	AH	0.01	200.8	04/10/2007 01:06:00 PM
Selenium as Se (SPLP)	0.010	mg/l	AH	0.001	200.8	04/10/2007 01:06:00 PM
Uranium as U (SPLP)	0.005	mg/l	AH	0.001	200.8	04/12/2007 10:51:00 AM
Vanadium as V (SPLP)	0.01	mg/l	AH	0.01	200.8	04/10/2007 01:06:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100191-1
Sample Name: SHOB-44 @ 75-80'
Sample Date/Time: 10/11/2007 00:00:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.19 B	mg/l	AH	0.01	200.8	04/10/2007 01:06:00 PM
SPLP Extraction Date	6677	---	LL	---	1312	04/05/2007 05:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1770	---	GC	---	200.7	04/11/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100191-8
Sample Name: SHOB-44 @ 110-115'
Sample Date/Time: 10/11/2007 00:00:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/10/2007 08:08:00 AM
Alkalinity Bicarb. as HCO3 (SPLP)	139	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	114	mg/l	TD	1	2320B	04/09/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	04/10/2007 12:07:00 PM
Electrical Conductivity (SPLP)	495	umhos/cm	TD	10	2510B	04/09/2007 10:30:00 AM
Fluoride (undistilled) (SPLP)	0.34	mg/l	MRK	0.1	300.0	04/10/2007 12:07:00 PM
Hardness as CaCO3 (SPLP)	14	mg/l	BH	4	2340B	04/11/2007 02:03:00 PM
pH (SPLP)	7.1	S.U.	TD	1.0-13.5	150.1	04/09/2007 12:30:00 PM
Sodium Absorption Ratio (SPLP)	10.1	—	BH	0.1	20b	04/11/2007 02:03:00 PM
Total Dissolved Solids (SPLP)	293	mg/l	ES	20	160.1	04/09/2006 12:35:00 PM
Total Suspended Solids (SPLP)	5	mg/l	ES	4	160.2	04/09/2007 12:35:00 PM
Calcium as Ca (SPLP)	4.0 B	mg/l	BH	0.5	200.7	04/11/2007 02:03:00 PM
Magnesium as Mg (SPLP)	1.0	mg/l	BH	0.5	200.7	04/11/2007 02:03:00 PM
Potassium as K (SPLP)	3.3	mg/l	BH	0.5	200.7	04/11/2007 02:03:00 PM
Sodium as Na (SPLP)	87	mg/l	BH	0.5	200.7	04/11/2007 02:03:00 PM
Aluminum as Al (SPLP)	0.63 B	mg/l	BH	0.05	200.7	05/15/2007 03:33:00 PM
Arsenic as As (SPLP)	0.008	mg/l	AH	0.001	200.8	04/10/2007 02:00:00 PM
Barium as Ba (SPLP)	0.20 B	mg/l	AH	0.005	200.8	04/10/2007 02:00:00 PM
Boron as B (SPLP)	0.4 B	mg/l	BH	0.1	200.7	04/10/2007 06:07:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	AH	0.0001	200.8	04/10/2007 02:00:00 PM
Chromium as Cr (SPLP)	0.003	mg/l	AH	0.001	200.8	04/10/2007 02:00:00 PM
Copper as Cu (SPLP)	0.009 B	mg/l	AH	0.001	200.8	04/10/2007 02:00:00 PM
Iron as Fe (SPLP)	0.34	mg/l	BH	0.01	200.7	05/15/2007 03:33:00 PM
Iron as Fe (Total, SPLP)	0.30	mg/l	BH	0.01	200.7	04/13/2007 04:13:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	AH	0.001	200.8	04/10/2007 02:00:00 PM
Manganese as Mn (SPLP)	0.010	mg/l	AH	0.005	200.8	04/10/2007 02:00:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/24/2007 09:29:56 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.8	04/10/2007 02:00:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	AH	0.01	200.8	04/10/2007 02:00:00 PM
Selenium as Se (SPLP)	0.009	mg/l	AH	0.001	200.8	04/10/2007 02:00:00 PM
Uranium as U (SPLP)	0.005	mg/l	AH	0.001	200.8	04/12/2007 10:59:00 AM
Radium as V (SPLP)	0.01	mg/l	AH	0.01	200.8	04/10/2007 02:00:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100191-8
Sample Name: SHOB-44 @ 110-115'
Sample Date/Time: 10/11/2007 00:00:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.18 B	mg/l	AH	0.01	200.8	04/10/2007 02:00:00 PM
SPLP Extraction Date	6677	---	LL	---	1312	04/05/2007 05:40:00 PM
SPLP ICP/AA Batch #/Digest Date	1770	---	GC	---	200.7	04/11/2007 01:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100343-6
Sample Name: SHOB-45, 25-30'
Sample Date/Time: 10/25/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	9	mg/l	ES	5	305.2	04/23/2007 07:05:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	20	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	16	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Chloride as Cl (SPLP)	1	mg/l	MRK	1	300.0	05/10/2007 10:08:00 AM
Electrical Conductivity (SPLP)	250	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.34	mg/l	MRK	0.1	300.0	05/10/2007 10:08:00 AM
Hardness as CaCO3 (SPLP)	23	mg/l	AH	4	2340B	04/26/2007 10:51:00 PM
pH (SPLP)	6.5	S.U.	TD	1.0-13.5	150.1	04/23/2007 08:15:00 AM
Sodium Absorption Ratio (SPLP)	3.12	---	KC	0.1	20b	05/23/2007 07:07:00 PM
Total Dissolved Solids (SPLP)	185	mg/l	RM	20	160.1	04/20/2007 11:50:00 AM
Total Suspended Solids (SPLP)	<4*	mg/l	RM	4	160.2	04/20/2007 11:50:00 AM
Calcium as Ca (SPLP)	3.9	mg/l	AH	0.5	200.7	04/26/2007 10:51:00 PM
Magnesium as Mg (SPLP)	3.1	mg/l	AH	0.5	200.7	04/26/2007 10:51:00 PM
Potassium as K (SPLP)	2.3	mg/l	KC	0.5	200.7	04/30/2007 09:25:00 PM
Sodium as Na (SPLP)	34	mg/l	KC	0.5	200.7	05/23/2007 07:07:00 PM
Aluminum as Al (SPLP)	0.17	mg/l	AH	0.05	200.7	04/26/2007 10:51:00 PM
Arsenic as As (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 08:42:00 PM
Barium as Ba (SPLP)	0.21 B	mg/l	BH	0.005	200.8	04/26/2007 08:42:00 PM
Boron as B (SPLP)	0.5	mg/l	AH	0.1	200.7	04/26/2007 10:51:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/26/2007 08:42:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 08:42:00 PM
Copper as Cu (SPLP)	0.008	mg/l	BH	0.001	200.8	04/26/2007 08:42:00 PM
Iron as Fe (SPLP)	0.21	mg/l	AH	0.01	200.7	04/26/2007 10:51:00 PM
Iron as Fe (Total, SPLP)	2.88	mg/l	KC	0.01	200.7	04/24/2007 08:30:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/26/2007 08:42:00 PM
Manganese as Mn (SPLP)	0.006	mg/l	BH	0.005	200.8	04/26/2007 08:42:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/25/2007 03:14:05 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 10:51:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/26/2007 08:42:00 PM
Selenium as Se (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 08:42:00 PM
Uranium as U (SPLP)	0.001	mg/l	BH	0.001	200.8	05/01/2007 09:59:00 AM
Vanadium as V (SPLP)	<0.01	mg/l	AH	0.01	200.7	04/26/2007 10:51:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100343-6
Sample Name: SHOB-45, 25-30'
Sample Date/Time: 10/25/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.12	mg/l	AH	0.01	200.7	04/26/2007 10:51:00 PM
SPLP Extraction Date	6688	----	LL	----	1312	04/12/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1804	----	GC	----	200.7	04/23/2007 08:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	----	----	----	----	
SPLP Mercury Batch#/Digest Date	NA	----	----	----	----	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110075-26
Sample Name: SHOB-46, 95-100
Sample Date/Time: 10/25/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/23/2007 07:05:00 PM
Alkalinity Bicarb. as HCO3 (SPLP)	119	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Alkalinity Total as CaCO3 (SPLP)	97	mg/l	TD	1	2320B	04/24/2007 10:30:00 AM
Chloride as Cl (SPLP)	2	mg/l	MRK	1	300.0	05/10/2007 09:07:00 AM
Electrical Conductivity (SPLP)	462	umhos/cm	TD	10	2510B	04/23/2007 01:00:00 PM
Fluoride (undistilled) (SPLP)	0.73	mg/l	MRK	0.1	300.0	05/10/2007 09:07:00 AM
Hardness as CaCO3 (SPLP)	13	mg/l	AH	4	2340B	04/26/2007 10:26:00 PM
pH (SPLP)	8.1	S.U.	TD	1.0-13.5	150.1	04/23/2007 08:15:00 AM
Sodium Absorption Ratio (SPLP)	9.62	—	KC	0.1	20b	05/23/2007 06:56:00 PM
Total Dissolved Solids (SPLP)	308	mg/l	RM	20	160.1	04/20/2007 11:50:00 AM
Total Suspended Solids (SPLP)	12 HT	mg/l	RM	4	160.2	05/04/2007 11:50:00 AM
Calcium as Ca (SPLP)	3.1	mg/l	AH	0.5	200.7	04/26/2007 10:26:00 PM
Magnesium as Mg (SPLP)	1.3	mg/l	AH	0.5	200.7	04/26/2007 10:26:00 PM
Potassium as K (SPLP)	4.1	mg/l	KC	0.5	200.7	04/30/2007 09:12:00 PM
Sodium as Na (SPLP)	80	mg/l	KC	0.5	200.7	05/23/2007 06:56:00 PM
Aluminum as Al (SPLP)	1.10	mg/l	AH	0.05	200.7	04/26/2007 10:26:00 PM
Arsenic as As (SPLP)	0.022	mg/l	BH	0.001	200.8	04/26/2007 08:10:00 PM
Barium as Ba (SPLP)	0.39	mg/l	BH	0.005	200.8	04/26/2007 08:10:00 PM
Boron as B (SPLP)	0.3	mg/l	AH	0.1	200.7	04/26/2007 10:26:00 PM
Cadmium as Cd (SPLP)	0.0003	mg/l	BH	0.0001	200.8	04/26/2007 08:10:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/26/2007 08:10:00 PM
Copper as Cu (SPLP)	0.012	mg/l	BH	0.001	200.8	04/26/2007 08:10:00 PM
Iron as Fe (SPLP)	1.00	mg/l	AH	0.01	200.7	04/26/2007 10:26:00 PM
Iron as Fe (Total, SPLP)	1.48	mg/l	KC	0.01	200.7	04/24/2007 10:14:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 08:10:00 PM
Manganese as Mn (SPLP)	0.073	mg/l	BH	0.005	200.8	04/26/2007 08:10:00 PM
Mercury as Hg (SPLP)	0.00005	mg/l	BH	0.00001	200.8	04/25/2007 02:57:37 PM
Molybdenum as Mo (SPLP)	0.07	mg/l	AH	0.05	200.7	04/26/2007 10:26:00 PM
Nickel as Ni (SPLP)	0.01	mg/l	BH	0.01	200.8	04/26/2007 08:10:00 PM
Selenium as Se (SPLP)	0.014	mg/l	BH	0.001	200.8	04/26/2007 08:10:00 PM
Uranium as U (SPLP)	0.006	mg/l	BH	0.001	200.8	05/01/2007 09:50:00 AM
Vanadium as V (SPLP)	0.03	mg/l	AH	0.01	200.7	04/26/2007 10:26:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000110075-26
Sample Name: SHOB-46, 95-100
Sample Date/Time: 10/25/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.22	mg/l	AH	0.01	200.7	04/26/2007 10:26:00 PM
SPLP Extraction Date	6688	---	LL	---	1312	04/12/2007 04:25:00 PM
SPLP ICP/AA Batch #/Digest Date	1804	---	GC	---	200.7	04/23/2007 08:00:00 AM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100192-29
Sample Name: SHOB-47; 70-75'
Sample Date/Time: 10/13/2006
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/20/2007 07:28:02 PM
Alkalinity Bicarb. as HCO3 (SPLP)	101	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	7	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	94	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Chloride as Cl (SPLP)	2 B	mg/l	MRK	1	300.0	04/18/2007 04:59:00 PM
Electrical Conductivity (SPLP)	400	umhos/cm	TD	10	2510B	04/20/2007 02:00:00 PM
Fluoride (undistilled) (SPLP)	0.56 B	mg/l	MRK	0.1	300.0	04/18/2007 04:59:00 PM
Hardness as CaCO3 (SPLP)	12	mg/l	AH	4	2340B	04/26/2007 05:35:00 PM
pH (SPLP)	9.3	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	9.04	---	BH	0.1	20b	05/18/2007 12:00:00 PM
Total Dissolved Solids (SPLP)	207	mg/l	ES	20	160.1	04/13/2007 09:35:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/13/2007 09:35:00 AM
Calcium as Ca (SPLP)	2.7 B	mg/l	AH	0.5	200.7	04/26/2007 05:35:00 PM
Magnesium as Mg (SPLP)	1.2	mg/l	AH	0.5	200.7	04/26/2007 05:35:00 PM
Potassium as K (SPLP)	2.2	mg/l	KC	0.5	200.7	04/30/2007 06:11:00 PM
Sodium as Na (SPLP)	71	mg/l	BH	0.5	200.7	05/18/2007 12:00:00 PM
Aluminum as Al (SPLP)	2.18	mg/l	AH	0.05	200.7	04/26/2007 05:35:00 PM
Arsenic as As (SPLP)	0.012	mg/l	BH	0.001	200.8	04/18/2007 06:03:00 PM
Barium as Ba (SPLP)	0.33 B	mg/l	BH	0.005	200.8	04/18/2007 06:03:00 PM
Boron as B (SPLP)	0.3	mg/l	AH	0.1	200.7	04/26/2007 05:43:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/18/2007 06:03:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/18/2007 06:03:00 PM
Copper as Cu (SPLP)	0.006	mg/l	BH	0.001	200.8	04/18/2007 06:03:00 PM
Iron as Fe (SPLP)	0.74	mg/l	AH	0.01	200.7	04/26/2007 05:35:00 PM
Iron as Fe (Total, SPLP)	0.58	mg/l	KC	0.01	200.7	04/24/2007 04:00:00 PM
Lead as Pb (SPLP)	<0.001	mg/l	BH	0.001	200.8	04/18/2007 06:03:00 PM
Manganese as Mn (SPLP)	0.018	mg/l	BH	0.005	200.8	04/18/2007 06:03:00 PM
Mercury as Hg (SPLP)	0.00002	mg/l	BH	0.00001	200.8	04/24/2007 10:27:21 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 05:35:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/18/2007 06:03:00 PM
Selenium as Se (SPLP)	0.004	mg/l	BH	0.001	200.8	04/18/2007 06:03:00 PM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 01:00:00 PM
Vanadium as V (SPLP)	0.03	mg/l	BH	0.01	200.8	04/18/2007 06:03:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100192-29
Sample Name: SHOB-47; 70-75'
Sample Date/Time: 10/13/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.16 B	mg/l	AH	0.01	200.7	04/26/2007 05:35:00 PM
SPLP Extraction Date	6681	---	LL	---	1312	04/07/2007 01:15:00 PM
SPLP ICP/AA Batch #/Digest Date	1802	---	KC	---	200.7	04/20/2007 03:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100192-34
Sample Name: SHOB-47; 95-100'
Sample Date/Time: 10/13/2006 -----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/20/2007 07:28:02 PM
Alkalinity Bicarb. as HCO3 (SPLP)	119	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	0	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	97	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Chloride as Cl (SPLP)	2 B	mg/l	MRK	1	300.0	04/18/2007 05:29:00 PM
Electrical Conductivity (SPLP)	412	umhos/cm	TD	10	2510B	04/20/2007 02:00:00 PM
Fluoride (undistilled) (SPLP)	0.66 B	mg/l	MRK	0.1	300.0	04/18/2007 05:29:00 PM
Hardness as CaCO3 (SPLP)	12	mg/l	AH	4	2340B	04/26/2007 05:39:00 PM
pH (SPLP)	7.4	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	10.2	---	BH	0.1	20b	05/18/2007 12:03:00 PM
Total Dissolved Solids (SPLP)	223	mg/l	ES	20	160.1	04/13/2007 09:35:00 AM
Total Suspended Solids (SPLP)	<4	mg/l	ES	4	160.2	04/13/2007 09:35:00 AM
Calcium as Ca (SPLP)	3.2 B	mg/l	AH	0.5	200.7	04/26/2007 05:39:00 PM
Magnesium as Mg (SPLP)	1.0	mg/l	AH	0.5	200.7	04/26/2007 05:39:00 PM
Potassium as K (SPLP)	2.0	mg/l	KC	0.5	200.7	04/30/2007 06:11:00 PM
Sodium as Na (SPLP)	82	mg/l	BH	0.5	200.7	05/18/2007 12:03:00 PM
Aluminum as Al (SPLP)	3.42	mg/l	AH	0.05	200.7	04/26/2007 05:39:00 PM
Arsenic as As (SPLP)	0.023	mg/l	BH	0.001	200.8	04/18/2007 06:09:00 PM
Barium as Ba (SPLP)	0.23 B	mg/l	BH	0.005	200.8	04/18/2007 06:09:00 PM
Boron as B (SPLP)	0.3	mg/l	AH	0.1	200.7	04/26/2007 05:39:00 PM
Cadmium as Cd (SPLP)	<0.0001	mg/l	BH	0.0001	200.8	04/18/2007 06:09:00 PM
Chromium as Cr (SPLP)	0.002	mg/l	BH	0.001	200.8	04/18/2007 06:09:00 PM
Copper as Cu (SPLP)	0.008	mg/l	BH	0.001	200.8	04/18/2007 06:09:00 PM
Iron as Fe (SPLP)	1.15	mg/l	AH	0.01	200.7	04/26/2007 05:39:00 PM
Iron as Fe (Total, SPLP)	0.79	mg/l	KC	0.01	200.7	04/24/2007 04:00:00 PM
Lead as Pb (SPLP)	0.001	mg/l	BH	0.001	200.8	04/18/2007 06:09:00 PM
Manganese as Mn (SPLP)	0.010	mg/l	BH	0.005	200.8	04/18/2007 06:09:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/24/2007 10:32:04 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 05:39:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/18/2007 06:09:00 PM
Selenium as Se (SPLP)	0.005	mg/l	BH	0.001	200.8	04/18/2007 06:09:00 PM
Uranium as U (SPLP)	0.003	mg/l	BH	0.001	200.8	04/26/2007 01:02:00 PM
Vanadium as V (SPLP)	0.06	mg/l	BH	0.01	200.8	04/18/2007 06:09:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100192-34
Sample Name: SHOB-47; 95-100'
Sample Date/Time: 10/13/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.11B	mg/l	BH	0.01	200.7	04/26/2007 05:39:00 PM
SPLP Extraction Date	6681	---	LL	---	1312	04/07/2007 01:15:00 PM
SPLP ICP/AA Batch #/Digest Date	1802	---	KC	---	200.7	04/20/2007 03:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100192-50
Sample Name: SHOB-47; 165-170'
Sample Date/Time: 10/13/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acidity as CaCO3 (SPLP)	<5	mg/l	ES	5	305.2	04/20/2007 07:28:02 PM
Alkalinity Bicarb. as HCO3 (SPLP)	160	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Carbonate as CO3 (SPLP)	5	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Alkalinity Total as CaCO3 (SPLP)	139	mg/l	TD	1	2320B	04/20/2007 01:00:00 PM
Chloride as Cl (SPLP)	2 B	mg/l	MRK	1	300.0	04/18/2007 06:30:00 PM
Electrical Conductivity (SPLP)	454	umhos/cm	TD	10	2510B	04/20/2007 02:00:00 PM
Fluoride (undistilled) (SPLP)	0.73 B	mg/l	MRK	0.1	300.0	04/18/2007 06:30:00 PM
Hardness as CaCO3 (SPLP)	17	mg/l	AH	4	2340B	04/26/2007 05:43:00 PM
pH (SPLP)	8.9	S.U.	TD	1.0-13.5	150.1	04/17/2007 09:30:00 AM
Sodium Absorption Ratio (SPLP)	9.77	---	BH	0.1	20b	05/18/2007 12:07:00 PM
Total Dissolved Solids (SPLP)	341	mg/l	ES	20	160.1	04/13/2007 09:35:00 AM
Total Suspended Solids (SPLP)	7	mg/l	ES	4	160.2	04/13/2007 09:35:00 AM
Calcium as Ca (SPLP)	4.4 B	mg/l	AH	0.5	200.7	04/26/2007 05:43:00 PM
Magnesium as Mg (SPLP)	1.5	mg/l	AH	0.5	200.7	04/26/2007 05:43:00 PM
Potassium as K (SPLP)	2.6	mg/l	KC	0.5	200.7	04/30/2007 06:29:00 PM
Sodium as Na (SPLP)	93	mg/l	BH	0.5	200.7	05/18/2007 12:07:00 PM
Aluminum as Al (SPLP)	2.49	mg/l	AH	0.05	200.7	04/26/2007 05:43:00 PM
Arsenic as As (SPLP)	0.015	mg/l	BH	0.001	200.8	04/18/2007 06:15:00 PM
Barium as Ba (SPLP)	0.27 B	mg/l	BH	0.005	200.8	04/18/2007 06:15:00 PM
Boron as B (SPLP)	0.4	mg/l	AH	0.1	200.7	04/26/2007 05:43:00 PM
Cadmium as Cd (SPLP)	0.0001	mg/l	BH	0.0001	200.8	04/18/2007 06:15:00 PM
Chromium as Cr (SPLP)	0.001	mg/l	BH	0.001	200.8	04/18/2007 06:15:00 PM
Copper as Cu (SPLP)	0.009	mg/l	BH	0.001	200.8	04/18/2007 06:15:00 PM
Iron as Fe (SPLP)	2.59	mg/l	AH	0.01	200.7	04/26/2007 05:43:00 PM
Iron as Fe (Total, SPLP)	5.17	mg/l	KC	0.01	200.7	04/24/2007 04:00:00 PM
Lead as Pb (SPLP)	0.002	mg/l	BH	0.001	200.8	04/18/2007 06:15:00 PM
Manganese as Mn (SPLP)	0.068	mg/l	BH	0.005	200.8	04/18/2007 06:15:00 PM
Mercury as Hg (SPLP)	<0.00001	mg/l	BH	0.00001	200.8	04/24/2007 10:36:45 PM
Molybdenum as Mo (SPLP)	<0.05	mg/l	AH	0.05	200.7	04/26/2007 05:43:00 PM
Nickel as Ni (SPLP)	<0.01	mg/l	BH	0.01	200.8	04/18/2007 06:15:00 PM
Selenium as Se (SPLP)	0.009	mg/l	BH	0.001	200.8	04/18/2007 06:15:00 PM
Uranium as U (SPLP)	0.002	mg/l	BH	0.001	200.8	04/26/2007 01:04:00 PM
Vanadium as V (SPLP)	0.02	mg/l	BH	0.01	200.8	04/18/2007 06:15:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2000100192-50
Sample Name: SHOB-47; 165-170'
Sample Date/Time: 10/13/2006 ----
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Zinc as Zn (SPLP)	0.10 B	mg/l	AH	0.01	200.7	04/26/2007 05:43:00 PM
SPLP Extraction Date	6681	---	LL	---	1312	04/07/2007 01:15:00 PM
SPLP ICP/AA Batch #/Digest Date	1802	---	KC	---	200.7	04/20/2007 03:00:00 PM
SPLP ICP/MS Batch#/Digest Date	NA	---	---	---	---	---
SPLP Mercury Batch#/Digest Date	NA	---	---	---	---	---

Whole Rock Acid Digestion for Metals Analysis
And
Acid Base Accounting Results

Client:
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2006100061-2
Sample Name: SHMW-04D @ 5-10'
Sample Date/Time: 09/26/2006 15:25:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	890	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/05/2007 08:54:00 PM
Barium Dry Basis	1900	mg/kg	AH	10	6010B	03/07/2007 08:17:00 PM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/05/2007 08:54:00 PM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/05/2007 08:54:00 PM
Chromium Dry Basis	<10	mg/kg	AH	10	6010B	03/05/2007 08:54:00 PM
Copper Dry Basis	26	mg/kg	AH	10	6010B	03/05/2007 08:54:00 PM
Iron Dry Basis	1130	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Lead Dry Basis	<10	mg/kg	AH	10	6010B	03/05/2007 08:54:00 PM
Manganese Dry Basis	126	mg/kg	AH	10	6010B	03/05/2007 08:54:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 04:15:00 PM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/05/2007 08:54:00 PM
Nickel Dry Basis	10	mg/kg	AH	10	6010B	03/05/2007 08:54:00 PM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/05/2007 08:54:00 PM
Sodium Dry Basis	13	mg/kg	AH	10	6010B	03/05/2007 08:54:00 PM
Zinc Dry Basis	20	mg/kg	AH	10	6010B	03/05/2007 08:54:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	---	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	37.5	tons/1000	CC	0.5	SOBEK	03/20/2007 02:35:00 PM
Acid/Base Potential	-24.7	tons/1000	TD	0.5	SOBEK	04/18/2007 06:57:00 PM
Neutralization Potential	12.8	tons/1000	TD	0.5	SOBEK	04/18/2007 06:58:44 PM
Sulfur, Total	1.20	%	CC	0.01	SOBEK	03/20/2007 02:35:00 PM
Sulfur, Pyritic	0.02	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	0.76	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2006100061-3
Sample Name: SHMW-04D @ 12-14'
Sample Date/Time: 09/26/2006 15:30:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	23300	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/05/2007 09:07:00 PM
Barium Dry Basis	222	mg/kg	AH	10	6010B	03/05/2007 09:07:00 PM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/05/2007 09:07:00 PM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/05/2007 09:07:00 PM
Chromium Dry Basis	40	mg/kg	AH	10	6010B	03/05/2007 09:07:00 PM
Copper Dry Basis	24	mg/kg	AH	10	6010B	03/05/2007 09:07:00 PM
Iron Dry Basis	27700	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Lead Dry Basis	<10	mg/kg	AH	10	6010B	03/05/2007 09:07:00 PM
Manganese Dry Basis	229	mg/kg	AH	10	6010B	03/05/2007 09:07:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 04:15:00 PM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/05/2007 09:07:00 PM
Nickel Dry Basis	34	mg/kg	AH	10	6010B	03/05/2007 09:07:00 PM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/05/2007 09:07:00 PM
Sodium Dry Basis	48	mg/kg	AH	10	6010B	03/05/2007 09:07:00 PM
Zinc Dry Basis	60	mg/kg	AH	10	6010B	03/05/2007 09:07:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	---	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	21.2	tons/1000	CC	0.5	SOBEK	03/20/2007 02:40:00 PM
Acid/Base Potential	8.4	tons/1000	TD	0.5	SOBEK	04/14/2007 11:45:00 AM
Neutralization Potential	29.6	tons/1000	TD	0.5	SOBEK	04/14/2007 11:44:14 AM
Sulfur, Total	0.68	%	CC	0.01	SOBEK	03/20/2007 02:35:00 PM
Sulfur, Pyritic	0.62	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	0.01	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: GOLDEN ASSOCIATES, INC.
 Project Name: SOUTH HEART POWER PROJECT
 Project No.: 063-2174
 Laboratory No.: 2006100061-5
 Sample Name: SHMW-04D @ 21-23'
 Sample Date/Time: 09/26/2006 16:15:
 Collected by: RYAN TOLENE
 Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	3770	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/05/2007 09:08:00 AM
Barium Dry Basis	235	mg/kg	AH	10	6010B	03/05/2007 09:08:00 AM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/05/2007 09:08:00 AM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/05/2007 09:08:00 AM
Chromium Dry Basis	48	mg/kg	AH	10	6010B	03/05/2007 09:08:00 AM
Copper Dry Basis	59	mg/kg	AH	10	6010B	03/05/2007 09:08:00 AM
Iron Dry Basis	4010	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Lead Dry Basis	18	mg/kg	AH	10	6010B	03/05/2007 09:08:00 AM
Manganese Dry Basis	931	mg/kg	AH	10	6010B	03/05/2007 09:08:00 AM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 04:15:00 PM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/05/2007 09:08:00 AM
Nickel Dry Basis	50	mg/kg	AH	10	6010B	03/05/2007 09:08:00 AM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/05/2007 09:08:00 AM
Radium Dry Basis	76	mg/kg	AH	10	6010B	03/05/2007 09:08:00 AM
Zinc Dry Basis	105	mg/kg	AH	10	6010B	03/05/2007 09:08:00 AM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	----	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	3.1	tons/1000	CC	0.5	SOBEK	03/20/2007 02:42:00 PM
Acid/Base Potential	117	tons/1000	TD	0.5	SOBEK	04/18/2007 06:57:00 PM
Neutralization Potential	120	tons/1000	TD	0.5	SOBEK	04/18/2007 06:58:44 PM
Sulfur, Total	0.10	%	CC	0.01	SOBEK	03/20/2007 02:35:00 PM
Sulfur, Pyritic	0.04	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	0.03	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: GOLDEN ASSOCIATES, INC.
 Project Name: SOUTH HEART POWER PROJECT
 Project No.: 063-2174
 Laboratory No.: 2006100061-8
 Sample Name: SHMW-04D @ 37-38'
 Sample Date/Time: 09/27/2006 09:00:
 Collected by: RYAN TOLENE
 Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	35700	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:11:00 AM
Barium Dry Basis	172	mg/kg	AH	10	6010B	03/06/2007 09:11:00 AM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 09:11:00 AM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 09:11:00 AM
Chromium Dry Basis	32	mg/kg	AH	10	6010B	03/06/2007 09:11:00 AM
Copper Dry Basis	43	mg/kg	AH	10	6010B	03/06/2007 09:11:00 AM
Iron Dry Basis	24400	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Lead Dry Basis	17	mg/kg	AH	10	6010B	03/06/2007 09:11:00 AM
Manganese Dry Basis	336	mg/kg	AH	10	6010B	03/06/2007 09:11:00 AM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 04:15:00 PM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:11:00 AM
Nickel Dry Basis	22	mg/kg	AH	10	6010B	03/06/2007 09:11:00 AM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:11:00 AM
Silicon Dry Basis	47	mg/kg	AH	10	6010B	03/06/2007 09:11:00 AM
Zinc Dry Basis	72	mg/kg	AH	10	6010B	03/06/2007 09:11:00 AM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	---	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	2.5	tons/1000	CC	0.5	SOBEK	03/20/2007 02:44:00 PM
Acid/Base Potential	108	tons/1000	TD	0.5	SOBEK	04/18/2007 06:57:00 PM
Neutralization Potential	111	tons/1000	TD	0.5	SOBEK	04/18/2007 06:58:40 PM
Sulfur, Total	0.08	%	CC	0.01	SOBEK	03/20/2007 02:35:00 PM
Sulfur, Pyritic	0.05	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	0.01	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: SOUTH HEART POWER PROJECT
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2006100061-9
Sample Name: SHMW-04D @ 39-42'
Sample Date/Time: 09/27/2006 09:05:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	25300	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:14:00 AM
Barium Dry Basis	218	mg/kg	AH	10	6010B	03/06/2007 09:14:00 AM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 09:14:00 AM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 09:14:00 AM
Chromium Dry Basis	31	mg/kg	AH	10	6010B	03/06/2007 09:14:00 AM
Copper Dry Basis	22	mg/kg	AH	10	6010B	03/06/2007 09:14:00 AM
Iron Dry Basis	23800	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Lead Dry Basis	10	mg/kg	AH	10	6010B	03/06/2007 09:14:00 AM
Manganese Dry Basis	302	mg/kg	AH	10	6010B	03/06/2007 09:14:00 AM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 04:15:00 PM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:14:00 AM
Nickel Dry Basis	19	mg/kg	AH	10	6010B	03/06/2007 09:14:00 AM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:14:00 AM
Silicon Dry Basis	33	mg/kg	AH	10	6010B	03/06/2007 09:14:00 AM
Zinc Dry Basis	44	mg/kg	AH	10	6010B	03/06/2007 09:14:00 AM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	----	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	4.1	tons/1000	CC	0.5	SOBEK	03/20/2007 02:46:00 PM
Acid/Base Potential	121	tons/1000	TD	0.5	SOBEK	04/18/2007 06:57:00 PM
Neutralization Potential	125	tons/1000	TD	0.5	SOBEK	04/18/2007 06:56:48 PM
Sulfur, Total	0.13	%	CC	0.01	SOBEK	03/20/2007 02:35:00 PM
Sulfur, Pyritic	0.11	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	0.02	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: COLBERT ASSOCIATES, INC.
 Project Name: SOUTH HEART POWER PROJECT
 Project No.: 063-2174
 Laboratory No.: 2006100061-11
 Sample Name: SHMW-04D @ 54'
 Sample Date/Time: 09/27/2006 09:35:00
 Collected by: RYAN TOLENE
 Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	40700	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:18:00 AM
Barium Dry Basis	193	mg/kg	AH	10	6010B	03/06/2007 09:18:00 AM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 09:18:00 AM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 09:18:00 AM
Chromium Dry Basis	49	mg/kg	AH	10	6010B	03/06/2007 09:18:00 AM
Copper Dry Basis	59	mg/kg	AH	10	6010B	03/06/2007 09:18:00 AM
Iron Dry Basis	31800	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Lead Dry Basis	18	mg/kg	AH	10	6010B	03/06/2007 09:18:00 AM
Manganese Dry Basis	183	mg/kg	AH	10	6010B	03/06/2007 09:18:00 AM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 04:15:00 PM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:18:00 AM
Nickel Dry Basis	32	mg/kg	AH	10	6010B	03/06/2007 09:18:00 AM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:18:00 AM
Silver Dry Basis	78	mg/kg	AH	10	6010B	03/06/2007 09:18:00 AM
Zinc Dry Basis	110	mg/kg	AH	10	6010B	03/06/2007 09:18:00 AM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	—	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	—	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	2.5	tons/1000	CC	0.5	SOBEK	03/20/2007 02:49:00 PM
Acid/Base Potential	23.5	tons/1000	TD	0.5	SOBEK	04/14/2007 11:45:00 AM
Neutralization Potential	26.0	tons/1000	TD	0.5	SOBEK	04/14/2007 11:44:14 AM
Sulfur, Total	0.08	%	CC	0.01	SOBEK	03/20/2007 02:35:00 PM
Sulfur, Pyritic	0.02	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	0.04	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: SOUTH HEART POWER PROJECT
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2006100061-13
Sample Name: SHMW-04D @ 61'
Sample Date/Time: 09/27/2006 10:05:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	28600	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:21:00 AM
Barium Dry Basis	339	mg/kg	AH	10	6010B	03/06/2007 09:21:00 AM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 09:21:00 AM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 09:21:00 AM
Chromium Dry Basis	38	mg/kg	AH	10	6010B	03/06/2007 09:21:00 AM
Copper Dry Basis	39	mg/kg	AH	10	6010B	03/06/2007 09:21:00 AM
Iron Dry Basis	22600	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Lead Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:21:00 AM
Manganese Dry Basis	223	mg/kg	AH	10	6010B	03/06/2007 09:21:00 AM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 04:15:00 PM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:21:00 AM
Nickel Dry Basis	30	mg/kg	AH	10	6010B	03/06/2007 09:21:00 AM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:21:00 AM
Strontium Dry Basis	50	mg/kg	AH	10	6010B	03/06/2007 09:21:00 AM
Zinc Dry Basis	64	mg/kg	AH	10	6010B	03/06/2007 09:21:00 AM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	—	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	—	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	1.9	tons/1000	CC	0.5	SOBEK	03/20/2007 02:55:00 PM
Acid/Base Potential	60.0	tons/1000	TD	0.5	SOBEK	04/20/2007 10:28:00 AM
Neutralization Potential	61.9	tons/1000	TD	0.5	SOBEK	04/20/2007 10:27:51 AM
Sulfur, Total	0.06	%	CC	0.01	SOBEK	03/20/2007 02:35:00 PM
Sulfur, Pyritic	0.04	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	0.02	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: SOUTH HEART POWER
Project Name: SOUTH HEART POWER
Project No.: 063-2174
Laboratory No.: 2006100062-10
Sample Name: SHMW05-43-48
Sample Date/Time: 10/01/2006 09:46:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	45400	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:24:00 AM
Barium Dry Basis	782	mg/kg	AH	10	6010B	03/06/2007 09:24:00 AM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 09:24:00 AM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 09:24:00 AM
Chromium Dry Basis	44	mg/kg	AH	10	6010B	03/06/2007 09:24:00 AM
Copper Dry Basis	43	mg/kg	AH	10	6010B	03/06/2007 09:24:00 AM
Iron Dry Basis	29700	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Lead Dry Basis	19	mg/kg	AH	10	6010B	03/06/2007 09:24:00 AM
Manganese Dry Basis	163	mg/kg	AH	10	6010B	03/06/2007 09:24:00 AM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 04:15:00 PM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:24:00 AM
Nickel Dry Basis	34	mg/kg	AH	10	6010B	03/06/2007 09:24:00 AM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:24:00 AM
Sodium Dry Basis	68	mg/kg	AH	10	6010B	03/06/2007 09:24:00 AM
Zinc Dry Basis	94	mg/kg	AH	10	6010B	03/06/2007 09:24:00 AM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	---	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	2.5	tons/1000	CC	0.5	SOBEK	03/20/2007 02:58:00 PM
Acid/Base Potential	14.2	tons/1000	TD	0.5	SOBEK	04/14/2007 11:45:00 AM
Neutralization Potential	16.7	tons/1000	TD	0.5	SOBEK	04/14/2007 11:44:14 AM
Sulfur, Total	0.08	%	CC	0.01	SOBEK	03/20/2007 02:58:00 PM
Sulfur, Pyritic	0.03	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	0.03	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: SOUTH HEART POWER
Project Name: SOUTH HEART POWER
Project No.: 063-2174
Laboratory No.: 2006100062-12
Sample Name: SHMW05-57-63
Sample Date/Time: 10/01/2006 10:46:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	34100	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	32	mg/kg	AH	10	6010B	03/06/2007 09:30:00 AM
Barium Dry Basis	214	mg/kg	AH	10	6010B	03/06/2007 09:30:00 AM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 09:30:00 AM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 09:30:00 AM
Chromium Dry Basis	41	mg/kg	AH	10	6010B	03/06/2007 09:30:00 AM
Copper Dry Basis	44	mg/kg	AH	10	6010B	03/06/2007 09:30:00 AM
Iron Dry Basis	33200	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Lead Dry Basis	12	mg/kg	AH	10	6010B	03/06/2007 09:30:00 AM
Manganese Dry Basis	254	mg/kg	AH	10	6010B	03/06/2007 09:30:00 AM
Mercury Dry Basis	0.1	mg/kg	KC	0.1	7471B	03/01/2007 04:15:00 PM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:30:00 AM
Nickel Dry Basis	67	mg/kg	AH	10	6010B	03/06/2007 09:30:00 AM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:30:00 AM
Radium Dry Basis	60	mg/kg	AH	10	6010B	03/06/2007 09:30:00 AM
Zinc Dry Basis	79	mg/kg	AH	10	6010B	03/06/2007 09:30:00 AM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	---	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	26.6	tons/1000	CC	0.5	SOBEK	03/20/2007 03:06:00 PM
Acid/Base Potential	1.8	tons/1000	TD	0.5	SOBEK	04/14/2007 11:45:00 AM
Neutralization Potential	28.4	tons/1000	TD	0.5	SOBEK	04/14/2007 11:44:14 AM
Sulfur, Total	0.85	%	CC	0.01	SOBEK	03/20/2007 02:58:00 PM
Sulfur, Pyritic	0.80	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	<0.01	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER
Project No.: 063-2174
Laboratory No.: 2006100062-21
Sample Name: SHMW05-105-110
Sample Date/Time: 10/01/2006 15:01:
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	18000	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:34:00 AM
Barium Dry Basis	165	mg/kg	AH	10	6010B	03/06/2007 09:34:00 AM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 09:34:00 AM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 09:34:00 AM
Chromium Dry Basis	42	mg/kg	AH	10	6010B	03/06/2007 09:34:00 AM
Copper Dry Basis	33	mg/kg	AH	10	6010B	03/06/2007 09:34:00 AM
Iron Dry Basis	20800	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Lead Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:34:00 AM
Manganese Dry Basis	332	mg/kg	AH	10	6010B	03/06/2007 09:34:00 AM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 04:15:00 PM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:34:00 AM
Nickel Dry Basis	17	mg/kg	AH	10	6010B	03/06/2007 09:34:00 AM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:34:00 AM
Sodium Dry Basis	42	mg/kg	AH	10	6010B	03/06/2007 09:34:00 AM
Zinc Dry Basis	43	mg/kg	AH	10	6010B	03/06/2007 09:34:00 AM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	—	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	—	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	0.6	tons/1000	CC	0.5	SOBEK	03/20/2007 03:08:00 PM
Acid/Base Potential	119	tons/1000	TD	0.5	SOBEK	04/18/2007 06:57:00 PM
Neutralization Potential	120	tons/1000	TD	0.5	SOBEK	04/18/2007 06:58:42 PM
Sulfur, Total	0.02	%	CC	0.01	SOBEK	03/20/2007 02:58:00 PM
Sulfur, Pyritic	0.03	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	<0.01	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: SOUTH HEART POWER PROJECT
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2006100095-9
Sample Name: SHMW05-146-151
Sample Date/Time: 10/02/2006 10:17:00
Collected by: WITT & ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	49000	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:59:00 AM
Barium Dry Basis	277	mg/kg	AH	10	6010B	03/06/2007 09:59:00 AM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 09:59:00 AM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 09:59:00 AM
Chromium Dry Basis	51	mg/kg	AH	10	6010B	03/06/2007 09:59:00 AM
Copper Dry Basis	46	mg/kg	AH	10	6010B	03/06/2007 09:59:00 AM
Iron Dry Basis	27500	mg/kg	AH	100	6010B	03/07/2007 09:18:00 PM
Lead Dry Basis	25	mg/kg	AH	10	6010B	03/06/2007 09:59:00 AM
Manganese Dry Basis	214	mg/kg	AH	10	6010B	03/06/2007 09:59:00 AM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 04:15:00 PM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:59:00 AM
Nickel Dry Basis	17	mg/kg	AH	10	6010B	03/06/2007 09:59:00 AM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:59:00 AM
Sodium Dry Basis	79	mg/kg	AH	10	6010B	03/06/2007 09:59:00 AM
Zinc Dry Basis	104	mg/kg	AH	10	6010B	03/06/2007 09:59:00 AM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	—	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	—	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	11.6	tons/1000	CC	0.5	SOBEK	03/20/2007 03:30:00 PM
Acid/Base Potential	-0.7	tons/1000	TD	0.5	SOBEK	04/14/2007 11:45:00 AM
Neutralization Potential	10.9	tons/1000	TD	0.5	SOBEK	04/14/2007 11:44:16 AM
Sulfur, Total	0.37	%	CC	0.01	SOBEK	03/20/2007 03:30:00 PM
Sulfur, Pyritic	<0.01	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	0.34	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Project Name: SOUTH HEART POWER

Project No.: 063-2174

Laboratory No.: 2006100063-33

Sample Name: SHMW06-5-8

Sample Date/Time: 09/27/2006 07:40:

Collected by: ELLIOTT & WITT

Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	40800	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:50:00 AM
Barium Dry Basis	327	mg/kg	AH	10	6010B	03/06/2007 09:50:00 AM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 09:50:00 AM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 09:50:00 AM
Chromium Dry Basis	43	mg/kg	AH	10	6010B	03/06/2007 09:50:00 AM
Copper Dry Basis	48	mg/kg	AH	10	6010B	03/06/2007 09:50:00 AM
Iron Dry Basis	35500	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Lead Dry Basis	14	mg/kg	AH	10	6010B	03/06/2007 09:50:00 AM
Manganese Dry Basis	392	mg/kg	AH	10	6010B	03/06/2007 09:50:00 AM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 04:15:00 PM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:50:00 AM
Nickel Dry Basis	34	mg/kg	AH	10	6010B	03/06/2007 09:50:00 AM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:50:00 AM
Radium Dry Basis	70	mg/kg	AH	10	6010B	03/06/2007 09:50:00 AM
Zinc Dry Basis	97	mg/kg	AH	10	6010B	03/06/2007 09:50:00 AM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	---	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	12.5	tons/1000	CC	0.5	SOBEK	03/20/2007 03:21:00 PM
Acid/Base Potential	16.6	tons/1000	TD	0.5	SOBEK	04/14/2007 11:45:00 AM
Neutralization Potential	29.1	tons/1000	TD	0.5	SOBEK	04/14/2007 11:44:15 AM
Sulfur, Total	0.40	%	CC	0.01	SOBEK	03/20/2007 03:10:00 PM
Sulfur, Pyritic	<0.01	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	0.37	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER
Project No.: 063-2174
Laboratory No.: 2006100063-1
Sample Name: SHMW06-21.5-25
Sample Date/Time: 09/27/2006 08:35:00
Collected by: ELLIOTT & WITT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	22400	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:43:00 AM
Barium Dry Basis	178	mg/kg	AH	10	6010B	03/06/2007 09:43:00 AM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 09:43:00 AM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 09:43:00 AM
Chromium Dry Basis	30	mg/kg	AH	10	6010B	03/06/2007 09:43:00 AM
Copper Dry Basis	29	mg/kg	AH	10	6010B	03/06/2007 09:43:00 AM
Iron Dry Basis	36100	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Lead Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:43:00 AM
Manganese Dry Basis	476	mg/kg	AH	10	6010B	03/06/2007 09:43:00 AM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 04:15:00 PM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:43:00 AM
Nickel Dry Basis	15	mg/kg	AH	10	6010B	03/06/2007 09:43:00 AM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:43:00 AM
Sodium Dry Basis	40	mg/kg	AH	10	6010B	03/06/2007 09:43:00 AM
Zinc Dry Basis	40	mg/kg	AH	10	6010B	03/06/2007 09:43:00 AM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	—	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	—	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	0.6	tons/1000	CC	0.5	SOBEK	03/20/2007 03:10:00 PM
Acid/Base Potential	128	tons/1000	TD	0.5	SOBEK	04/18/2007 06:57:00 PM
Neutralization Potential	129	tons/1000	TD	0.5	SOBEK	04/18/2007 06:56:48 PM
Sulfur, Total	0.02	%	CC	0.01	SOBEK	03/20/2007 03:10:00 PM
Sulfur, Pyritic	<0.01	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	0.02	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER
Project No.: 063-2174
Laboratory No.: 2006100063-7
Sample Name: SHMW06-46.5-51.5
Sample Date/Time: 09/27/2006 11:45:
Collected by: ELLIOTT & WITT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	16900	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:47:00 AM
Barium Dry Basis	102	mg/kg	AH	10	6010B	03/06/2007 09:47:00 AM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 09:47:00 AM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 09:47:00 AM
Chromium Dry Basis	28	mg/kg	AH	10	6010B	03/06/2007 09:47:00 AM
Copper Dry Basis	29	mg/kg	AH	10	6010B	03/06/2007 09:47:00 AM
Iron Dry Basis	19900	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Lead Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:47:00 AM
Manganese Dry Basis	181	mg/kg	AH	10	6010B	03/06/2007 09:47:00 AM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 04:15:00 PM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:47:00 AM
Nickel Dry Basis	24	mg/kg	AH	10	6010B	03/06/2007 09:47:00 AM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:47:00 AM
Sodium Dry Basis	37	mg/kg	AH	10	6010B	03/06/2007 09:47:00 AM
Zinc Dry Basis	67	mg/kg	AH	10	6010B	03/06/2007 09:47:00 AM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	---	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	11.9	tons/1000	CC	0.5	SOBEK	03/20/2007 03:19:00 PM
Acid/Base Potential	49.5	tons/1000	TD	0.5	SOBEK	04/18/2007 06:57:00 PM
Neutralization Potential	61.4	tons/1000	TD	0.5	SOBEK	04/18/2007 06:56:47 PM
Sulfur, Total	0.38	%	CC	0.01	SOBEK	03/20/2007 03:10:00 PM
Sulfur, Pyritic	0.02	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	0.35	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2006100064-3
Sample Name: SHMW-10D @ 10-15'
Sample Date/Time: 09/29/2006 11:20:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	28500	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:53:00 AM
Barium Dry Basis	241	mg/kg	AH	10	6010B	03/06/2007 09:53:00 AM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 09:53:00 AM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 09:53:00 AM
Chromium Dry Basis	35	mg/kg	AH	10	6010B	03/06/2007 09:53:00 AM
Copper Dry Basis	20	mg/kg	AH	10	6010B	03/06/2007 09:53:00 AM
Iron Dry Basis	24500	mg/kg	AH	100	6010B	03/07/2007 09:12:00 PM
Lead Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:53:00 AM
Manganese Dry Basis	241	mg/kg	AH	10	6010B	03/06/2007 09:53:00 AM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 06:15:00 AM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:53:00 AM
Nickel Dry Basis	31	mg/kg	AH	5	6010B	03/06/2007 09:53:00 AM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:53:00 AM
Radium Dry Basis	50	mg/kg	AH	10	6010B	03/06/2007 09:53:00 AM
Zinc Dry Basis	64	mg/kg	AH	10	6010B	03/06/2007 09:53:00 AM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	----	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	----	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	3.1	tons/1000	CC	0.5	SOBEK	03/20/2007 03:23:00 PM
Acid/Base Potential	88.1	tons/1000	TD	0.5	SOBEK	04/18/2007 06:57:00 PM
Neutralization Potential	91.2	tons/1000	TD	0.5	SOBEK	04/18/2007 06:56:48 PM
Sulfur, Total	0.10	%	CC	0.01	SOBEK	03/20/2007 03:23:00 PM
Sulfur, Pyritic	<0.01	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	0.10	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: SOUTH HEART POWER PROJECT
Project Name: SOUTH HEART POWER PROJECT
Project No.: 063-2174
Laboratory No.: 2006100064-6
Sample Name: SHMW-10D @ 25-30'
Sample Date/Time: 09/29/2006 12:48:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	27800	mg/kg	AH	100	6010B	03/07/2007 08:01:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:56:00 AM
Barium Dry Basis	236	mg/kg	AH	10	6010B	03/06/2007 09:56:00 AM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 09:56:00 AM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 09:56:00 AM
Chromium Dry Basis	35	mg/kg	AH	10	6010B	03/06/2007 09:56:00 AM
Copper Dry Basis	19	mg/kg	AH	10	6010B	03/06/2007 09:56:00 AM
Iron Dry Basis	22900	mg/kg	AH	100	6010B	03/07/2007 09:15:00 PM
Lead Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:56:00 AM
Manganese Dry Basis	247	mg/kg	AH	10	6010B	03/06/2007 09:56:00 AM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 06:15:00 AM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:56:00 AM
Nickel Dry Basis	30	mg/kg	AH	5	6010B	03/06/2007 09:56:00 AM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 09:56:00 AM
Radium Dry Basis	50	mg/kg	AH	10	6010B	03/06/2007 09:56:00 AM
Zinc Dry Basis	63	mg/kg	AH	10	6010B	03/06/2007 09:56:00 AM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 12:44:00 PM
ICP/AA Batch#/Digest Date	1707	—	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	662	—	KC		7471B	03/01/2007 09:30:00 AM
Acid Potential	2.5	tons/1000	CC	0.5	SOBEK	03/20/2007 03:27:00 PM
Acid/Base Potential	36.4	tons/1000	TD	0.5	SOBEK	04/14/2007 11:45:00 AM
Neutralization Potential	38.9	tons/1000	TD	0.5	SOBEK	04/14/2007 11:44:15 AM
Sulfur, Total	0.08	%	CC	0.01	SOBEK	03/20/2007 03:23:00 PM
Sulfur, Pyritic	0.03	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM
Sulfur, Sulfate	0.03	%	CC	0.01	SOBEK	04/16/2007 03:00:00 PM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110091-17
Sample Name: SHOB-01, 25-30
Sample Date/Time: 10/28/2006 15:23:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	17400	mg/kg	KC	100	6010B	03/19/2007 07:53:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:42:00 PM
Barium Dry Basis	161	mg/kg	AH	10	6010B	03/06/2007 04:42:00 PM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 04:42:00 PM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 04:42:00 PM
Chromium Dry Basis	28	mg/kg	AH	10	6010B	03/06/2007 04:42:00 PM
Copper Dry Basis	38	mg/kg	AH	10	6010B	03/06/2007 04:42:00 PM
Iron Dry Basis	23100	mg/kg	AH	100	6010B	03/07/2007 09:50:00 PM
Lead Dry Basis	17	mg/kg	AH	10	6010B	03/06/2007 04:42:00 PM
Manganese Dry Basis	209	mg/kg	AH	10	6010B	03/06/2007 04:42:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/02/2007 11:00:00 AM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:42:00 PM
Nickel Dry Basis	39	mg/kg	AH	10	6010B	03/06/2007 04:42:00 PM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:42:00 PM
Radium Dry Basis	41	mg/kg	AH	10	6010B	03/06/2007 04:42:00 PM
Zinc Dry Basis	106	mg/kg	AH	10	6010B	03/06/2007 04:42:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 02:05:00 PM
ICP/AA Batch#/Digest Date	1708	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	664	---	KC		7471B	03/01/2007 12:00:00 PM
Acid/Base Potential	33.4	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:00 PM
Neutralization Potential	38.4	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:16 PM
Sulfur, Total	0.16	%	CC	0.01	SOBEK	04/16/2007 08:16:00 PM
Sulfur, Pyritic	0.12	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	0.01	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110085-4
Sample Name: SHOB-03, 15-20
Sample Date/Time: 10/27/2006 14:46:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	26.2	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	-18.7	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:00 PM
Neutralization Potential	7.5	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:18 PM
Sulfur, Total	0.84	%	CC	0.01	SOBEK	04/16/2007 07:19:00 PM
Sulfur, Pyritic	0.03	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	0.50	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110085-9
Sample Name: SHOB-03, 40-45
Sample Date/Time: 10/27/2006 14:58:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	5.3	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	64.3	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:00 PM
Neutralization Potential	69.6	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:18 PM
Sulfur, Total	0.17	%	CC	0.01	SOBEK	04/16/2007 07:21:00 PM
Sulfur, Pyritic	0.11	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	0.01	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110028-10
Sample Name: SHOB-05, 10-15
Sample Date/Time: 10/29/2006 07:29:00
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	22.8	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	3.8	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	26.6	tons/1000	TD	0.5	SOBEK	04/16/2007 11:05:51 PM
Sulfur, Total	0.73	%	CC	0.01	SOBEK	04/16/2007 06:35:00 PM
Sulfur, Pyritic	0.02	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	0.61	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110028-16
Sample Name: SHOB-05, 40-45
Sample Date/Time: 10/29/2006 07:58:00
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	41.6	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	10.9	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	52.5	tons/1000	TD	0.5	SOBEK	04/16/2007 11:05:52 PM
Sulfur, Total	1.33	%	CC	0.01	SOBEK	04/16/2007 06:37:00 PM
Sulfur, Pyritic	0.91	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	0.31	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110086-12
Sample Name: SHOB-08, 55-60
Sample Date/Time: 10/27/2006 12:43:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	17400	mg/kg	KC	100	6010B	03/19/2007 07:21:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:19:00 PM
Barium Dry Basis	144	mg/kg	AH	10	6010B	03/06/2007 04:19:00 PM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 04:19:00 PM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 04:19:00 PM
Chromium Dry Basis	30	mg/kg	AH	10	6010B	03/06/2007 04:19:00 PM
Copper Dry Basis	36	mg/kg	AH	10	6010B	03/06/2007 04:19:00 PM
Iron Dry Basis	25100	mg/kg	AH	100	6010B	03/07/2007 09:50:00 PM
Lead Dry Basis	14	mg/kg	AH	10	6010B	03/06/2007 04:19:00 PM
Manganese Dry Basis	250	mg/kg	AH	10	6010B	03/06/2007 04:19:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/01/2007 11:00:00 AM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:19:00 PM
Nickel Dry Basis	40	mg/kg	AH	10	6010B	03/06/2007 04:19:00 PM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:19:00 PM
Radium Dry Basis	42	mg/kg	AH	10	6010B	03/06/2007 04:19:00 PM
Zinc Dry Basis	94	mg/kg	AH	10	6010B	03/06/2007 04:19:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 02:05:00 PM
ICP/AA Batch#/Digest Date	1708	---	KC		200.7	03/06/2007 12:40:00 PM
Mercury Batch #/Digest Date	664	---	KC		7471B	03/01/2007 12:00:00 PM
Acid Potential	10.9	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	59.9	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:00 PM
Neutralization Potential	70.8	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:16 PM
Sulfur, Total	0.35	%	CC	0.01	SOBEK	04/16/2007 07:23:00 PM
Sulfur, Pyritic	0.32	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	<0.01	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110091-7
Sample Name: SHOB-04, 30-35
Sample Date/Time: 10/28/2006 14:39:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	12400	mg/kg	KC	100	6010B	03/19/2007 07:47:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:39:00 PM
Barium Dry Basis	121	mg/kg	AH	10	6010B	03/06/2007 04:39:00 PM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 04:39:00 PM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 04:39:00 PM
Chromium Dry Basis	26	mg/kg	AH	10	6010B	03/06/2007 04:39:00 PM
Copper Dry Basis	27	mg/kg	AH	10	6010B	03/06/2007 04:39:00 PM
Iron Dry Basis	44400	mg/kg	BH	100	6010B	03/12/2007 03:44:00 PM
Lead Dry Basis	11	mg/kg	AH	10	6010B	03/06/2007 04:39:00 PM
Manganese Dry Basis	1360	mg/kg	AH	10	6010B	03/06/2007 04:39:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/02/2007 11:00:00 AM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:39:00 PM
Nickel Dry Basis	37	mg/kg	AH	10	6010B	03/06/2007 04:39:00 PM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:39:00 PM
Sodium Dry Basis	41	mg/kg	AH	10	6010B	03/06/2007 04:39:00 PM
Zinc Dry Basis	83	mg/kg	AH	10	6010B	03/06/2007 04:39:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 02:05:00 PM
ICP/AA Batch#/Digest Date	1708	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	664	---	KC		7471B	03/01/2007 12:00:00 PM
Acid Potential	6.2	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	82.5	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:00 PM
Neutralization Potential	88.7	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:16 PM
Sulfur, Total	0.20	%	CC	0.01	SOBEK	04/16/2007 08:14:00 PM
Sulfur, Pyritic	0.15	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	0.02	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110090-24
Sample Name: SHOB-09, 10-15
Sample Date/Time: 10/28/2006 13:08:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	78.1	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	-78.1	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:00 PM
Neutralization Potential	<0.5	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:19 PM
Sulfur, Total	2.50	%	CC	0.01	SOBEK	04/16/2007 07:58:00 PM
Sulfur, Pyritic	0.27	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	1.31	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110090-27
Sample Name: SHOB-09, 25-30
Sample Date/Time: 10/28/2006 13:14:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	11600	mg/kg	BH	100	6010B	03/15/2007 11:13:00 AM
Arsenic Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:56:00 PM
Barium Dry Basis	314	mg/kg	BH	10	6010B	03/12/2007 06:56:00 PM
Boron Dry Basis	104	mg/kg	BH	100	6010B	03/12/2007 06:56:00 PM
Cadmium Dry Basis	<2	mg/kg	BH	2	6010B	03/12/2007 06:56:00 PM
Chromium Dry Basis	25	mg/kg	BH	10	6010B	03/12/2007 06:56:00 PM
Copper Dry Basis	47	mg/kg	BH	10	6010B	03/12/2007 06:56:00 PM
Iron Dry Basis	20900	mg/kg	BH	100	6010B	03/15/2007 11:13:00 AM
Lead Dry Basis	14	mg/kg	BH	10	6010B	03/12/2007 06:56:00 PM
Manganese Dry Basis	178	mg/kg	BH	10	6010B	03/12/2007 06:56:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/02/2007 11:00:00 AM
Molybdenum Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:56:00 PM
Nickel Dry Basis	29	mg/kg	BH	10	6010B	03/12/2007 06:56:00 PM
Selenium Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:56:00 PM
Sodium Dry Basis	43	mg/kg	BH	10	6010B	03/12/2007 06:56:00 PM
Zinc Dry Basis	76	mg/kg	BH	10	6010B	03/12/2007 06:56:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 02:05:00 PM
ICP/AA Batch#/Digest Date	1721	—	BH		3050B-M	03/09/2007 11:15:00 AM
Mercury Batch #/Digest Date	664	—	KC		7471B	03/01/2007 12:00:00 PM
Acid Potential	45.6	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	-18.9	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:00 PM
Neutralization Potential	26.7	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:17 PM
Sulfur, Total	1.40	%	CC	0.01	SOBEK	04/16/2007 08:05:00 PM
Sulfur, Pyritic	0.89	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	0.01	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110090-29
Sample Name: SHOB-09, 35-40
Sample Date/Time: 10/28/2006 13:16:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	7.8	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	78.3	tons/1000	TD	0.5	SOBEK	04/18/2007 06:58:46 PM
Neutralization Potential	86.1	tons/1000	TD	0.5	SOBEK	04/18/2007 06:58:46 PM
Sulfur, Total	0.25	%	CC	0.01	SOBEK	04/16/2007 08:07:00 PM
Sulfur, Pyritic	0.08	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	0.06	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Client: GOLDEN ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110090-34
Sample Name: SHOB-09, 60-65
Sample Date/Time: 10/28/2006 13:26:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	21.2	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	46.4	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:00 PM
Neutralization Potential	67.6	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:19 PM
Sulfur, Total	0.68	%	CC	0.01	SOBEK	04/16/2007 08:11:00 PM
Sulfur, Pyritic	0.56	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	0.07	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Client: GOLDEN ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100178-5
Sample Name: SHOB-10 @ 20-25'
Sample Date/Time: 10/12/2006 08:04:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	11900	mg/kg	KC	100	6010B	03/19/2007 06:30:00 PM
Arsenic Dry Basis	<50	mg/kg	KC	50	6010B	04/03/2007 05:39:00 PM
Barium Dry Basis	404	mg/kg	AH	10	6010B	03/06/2007 03:14:00 PM
Boron Dry Basis	<100	mg/kg	KC	100	6010B	04/03/2007 05:39:00 PM
Cadmium Dry Basis	<10	mg/kg	KC	10	6010B	04/03/2007 05:39:00 PM
Chromium Dry Basis	18	mg/kg	AH	10	6010B	03/06/2007 03:14:00 PM
Copper Dry Basis	21	mg/kg	AH	10	6010B	03/06/2007 03:14:00 PM
Iron Dry Basis	74700	mg/kg	BH	100	6010B	03/12/2007 03:38:00 PM
Lead Dry Basis	13	mg/kg	AH	10	6010B	03/06/2007 03:14:00 PM
Manganese Dry Basis	1400	mg/kg	AH	10	6010B	03/06/2007 03:14:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/02/2007 11:00:00 AM
Molybdenum Dry Basis	<25	mg/kg	KC	25	6010B	04/03/2007 05:39:00 PM
Nickel Dry Basis	19	mg/kg	AH	10	6010B	03/06/2007 03:14:00 PM
Selenium Dry Basis	<50	mg/kg	KC	50	6010B	04/03/2007 05:39:00 PM
Radium Dry Basis	29	mg/kg	AH	10	6010B	03/06/2007 03:14:00 PM
Zinc Dry Basis	63	mg/kg	AH	10	6010B	03/06/2007 03:14:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 02:05:00 PM
ICP/AA Batch#/Digest Date	1708	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	664	---	KC		7471B	03/02/2007 11:00:00 AM
Acid Potential	9.7	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	97.3	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	107	tons/1000	TD	0.5	SOBEK	04/18/2007 06:58:45 PM
Sulfur, Total	0.31	%	CC	0.01	SOBEK	04/16/2007 05:40:00 PM
Sulfur, Pyritic	<0.01	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	0.26	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100195-2
Sample Name: SHOB-12; 5-10'
Sample Date/Time: 10/16/2006 13:14:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	38.4	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	-26.5	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	11.9	tons/1000	TD	0.5	SOBEK	04/16/2007 11:05:50 PM
Sulfur, Total	1.23	%	CC	0.01	SOBEK	04/16/2007 05:52:00 PM
Sulfur, Pyritic	<0.01	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	1.03	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100195-10
Sample Name: SHOB-12; 45-50'
Sample Date/Time: 10/16/2006 13:37:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	13200	mg/kg	KC	100	6010B	03/19/2007 06:40:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 03:23:00 PM
Barium Dry Basis	274	mg/kg	AH	10	6010B	03/06/2007 03:23:00 PM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 03:23:00 PM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 03:23:00 PM
Chromium Dry Basis	24	mg/kg	AH	10	6010B	03/06/2007 03:23:00 PM
Copper Dry Basis	28	mg/kg	AH	10	6010B	03/06/2007 03:23:00 PM
Iron Dry Basis	21200	mg/kg	AH	100	6010B	03/07/2007 09:50:00 PM
Lead Dry Basis	15	mg/kg	AH	10	6010B	03/06/2007 03:23:00 PM
Manganese Dry Basis	278	mg/kg	AH	10	6010B	03/06/2007 03:23:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/02/2007 11:00:00 AM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 03:23:00 PM
Nickel Dry Basis	31	mg/kg	AH	10	6010B	03/06/2007 03:23:00 PM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 03:23:00 PM
Radium Dry Basis	34	mg/kg	AH	10	6010B	03/06/2007 03:23:00 PM
Zinc Dry Basis	81	mg/kg	AH	10	6010B	03/06/2007 03:23:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 02:05:00 PM
ICP/AA Batch#/Digest Date	1708	—	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	664	—	KC		7471B	03/01/2007 12:00:00 PM
Acid Potential	23.1	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	43.1	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	66.2	tons/1000	TD	0.5	SOBEK	04/16/2007 11:05:46 PM
Sulfur, Total	0.74	%	CC	0.01	SOBEK	04/16/2007 05:55:00 PM
Sulfur, Pyritic	0.69	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	<0.01	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100178-14
Sample Name: SHOB-14 @ 5-10'
Sample Date/Time: 10/12/2006 15:01:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	19.1	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	-8.0	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	11.1	tons/1000	TD	0.5	SOBEK	04/16/2007 11:05:49 PM
Sulfur, Total	0.61	%	CC	0.01	SOBEK	04/16/2007 05:45:00 PM
Sulfur, Pyritic	0.02	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	0.47	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100178-20
Sample Name: SHOB-14 @ 35-40'
Sample Date/Time: 10/12/2006 15:10:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	8020	mg/kg	KC	100	6010B	03/19/2007 06:33:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 03:17:00 PM
Barium Dry Basis	52	mg/kg	AH	10	6010B	03/06/2007 03:17:00 PM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 03:17:00 PM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 03:17:00 PM
Chromium Dry Basis	21	mg/kg	AH	10	6010B	03/06/2007 03:17:00 PM
Copper Dry Basis	16	mg/kg	AH	10	6010B	03/06/2007 03:17:00 PM
Iron Dry Basis	13800	mg/kg	AH	100	6010B	03/07/2007 09:50:00 PM
Lead Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 03:17:00 PM
Manganese Dry Basis	216	mg/kg	AH	10	6010B	03/06/2007 03:17:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/02/2007 11:00:00 AM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 03:17:00 PM
Nickel Dry Basis	33	mg/kg	AH	10	6010B	03/06/2007 03:17:00 PM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 03:17:00 PM
Vanadium Dry Basis	25	mg/kg	AH	10	6010B	03/06/2007 03:17:00 PM
Zinc Dry Basis	69	mg/kg	AH	10	6010B	03/06/2007 03:17:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 02:05:00 PM
ICP/AA Batch#/Digest Date	1708	----	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	664	----	KC		7471B	03/02/2007 11:00:00 AM
Acid Potential	1.6	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	108	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	110	tons/1000	TD	0.5	SOBEK	04/18/2007 06:58:44 PM
Sulfur, Total	0.05	%	CC	0.01	SOBEK	04/16/2007 05:47:00 PM
Sulfur, Pyritic	0.03	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	0.01	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110087-6
Sample Name: SHOB-17, 25-30
Sample Date/Time: 10/27/2006 15:48:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	15.0	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	-6.5	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:00 PM
Neutralization Potential	8.5	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:18 PM
Sulfur, Total	0.48	%	CC	0.01	SOBEK	04/16/2007 07:25:00 PM
Sulfur, Pyritic	0.06	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	0.34	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110089-48
Sample Name: SHOB-19, 10-15
Sample Date/Time: 10/28/2006 10:15:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	15100	mg/kg	KC	100	6010B	03/19/2007 07:34:00 PM
Arsenic Dry Basis	11	mg/kg	AH	10	6010B	03/06/2007 04:32:00 PM
Barium Dry Basis	270	mg/kg	AH	10	6010B	03/06/2007 04:32:00 PM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 04:32:00 PM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 04:32:00 PM
Chromium Dry Basis	21	mg/kg	AH	10	6010B	03/06/2007 04:32:00 PM
Copper Dry Basis	34	mg/kg	AH	10	6010B	03/06/2007 04:32:00 PM
Iron Dry Basis	24700	mg/kg	AH	100	6010B	03/07/2007 09:50:00 PM
Lead Dry Basis	21	mg/kg	AH	10	6010B	03/06/2007 04:32:00 PM
Manganese Dry Basis	390	mg/kg	AH	10	6010B	03/06/2007 04:32:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/02/2007 11:00:00 AM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:32:00 PM
Nickel Dry Basis	25	mg/kg	AH	10	6010B	03/06/2007 04:32:00 PM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:32:00 PM
Vanadium Dry Basis	33	mg/kg	AH	10	6010B	03/06/2007 04:32:00 PM
Zinc Dry Basis	76	mg/kg	AH	10	6010B	03/06/2007 04:32:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 02:05:00 PM
ICP/AA Batch#/Digest Date	1708	----	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	664	----	KC		7471B	03/01/2007 12:00:00 PM
Acid Potential	27.8	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	8.5	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:00 PM
Neutralization Potential	36.3	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:17 PM
Sulfur, Total	0.89	%	CC	0.01	SOBEK	04/16/2007 07:53:00 PM
Sulfur, Pyritic	0.07	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	0.81	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110029-13
Sample Name: SHOB-23, 60-65
Sample Date/Time: 10/29/2006 12:55:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	15100	mg/kg	KC	100	6010B	03/19/2007 07:09:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:00:00 PM
Barium Dry Basis	90	mg/kg	AH	10	6010B	03/06/2007 04:00:00 PM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 04:00:00 PM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 04:00:00 PM
Chromium Dry Basis	27	mg/kg	AH	10	6010B	03/06/2007 04:00:00 PM
Copper Dry Basis	30	mg/kg	AH	10	6010B	03/06/2007 04:00:00 PM
Iron Dry Basis	27200	mg/kg	AH	100	6010B	03/07/2007 09:50:00 PM
Lead Dry Basis	13	mg/kg	AH	10	6010B	03/06/2007 04:00:00 PM
Manganese Dry Basis	375	mg/kg	AH	10	6010B	03/06/2007 04:00:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/02/2007 11:00:00 AM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:00:00 PM
Nickel Dry Basis	38	mg/kg	AH	10	6010B	03/06/2007 04:00:00 PM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:00:00 PM
Radium Dry Basis	39	mg/kg	AH	10	6010B	03/06/2007 04:00:00 PM
Zinc Dry Basis	84	mg/kg	AH	10	6010B	03/06/2007 04:00:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 02:55:00 PM
ICP/AA Batch#/Digest Date	1708	---	AH		3050B-M	03/02/2007 12:08:00 AM
Mercury Batch #/Digest Date	664	---	KC		7471B	03/01/2007 12:00:00 PM
Acid Potential	14.4	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	54.3	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	68.7	tons/1000	TD	0.5	SOBEK	04/18/2007 06:58:45 PM
Sulfur, Total	0.46	%	CC	0.01	SOBEK	04/16/2007 06:40:00 PM
Sulfur, Pyritic	0.46	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	<0.01	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110029-27
Sample Name: SHOB-24, 40-45
Sample Date/Time: 10/29/2006 14:17:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	13400	mg/kg	BH	100	6010B	03/15/2007 11:03:00 AM
Arsenic Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:46:00 PM
Barium Dry Basis	114	mg/kg	BH	10	6010B	03/12/2007 06:46:00 PM
Boron Dry Basis	11	mg/kg	BH	100	6010B	03/12/2007 06:46:00 PM
Cadmium Dry Basis	<2	mg/kg	BH	2	6010B	03/12/2007 06:46:00 PM
Chromium Dry Basis	26	mg/kg	BH	10	6010B	03/12/2007 06:46:00 PM
Copper Dry Basis	41	mg/kg	BH	10	6010B	03/12/2007 06:46:00 PM
Iron Dry Basis	23000	mg/kg	BH	100	6010B	03/15/2007 11:03:00 AM
Lead Dry Basis	13	mg/kg	BH	10	6010B	03/12/2007 06:46:00 PM
Manganese Dry Basis	280	mg/kg	BH	10	6010B	03/12/2007 06:46:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/13/2007 04:45:00 PM
Molybdenum Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:46:00 PM
Nickel Dry Basis	39	mg/kg	BH	10	6010B	03/12/2007 06:46:00 PM
Selenium Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:46:00 PM
Strontium Dry Basis	36	mg/kg	BH	10	6010B	03/12/2007 06:46:00 PM
Zinc Dry Basis	92	mg/kg	BH	10	6010B	03/12/2007 06:46:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 03:28:00 PM
ICP/AA Batch#/Digest Date	1721	---	BH		3050B-M	03/09/2007 11:15:00 AM
Mercury Batch #/Digest Date	668	---	KC		7471B	03/12/2007 11:15:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100327-4
Sample Name: SHOB-25, 26-31'
Sample Date/Time: 10/19/2006 09:35:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	<0.5	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	145	tons/1000	TD	0.5	SOBEK	04/18/2007 06:58:44 PM
Neutralization Potential	145	tons/1000	TD	0.5	SOBEK	04/18/2007 06:58:48 PM
Sulfur, Total	0.01	%	CC	0.01	SOBEK	04/16/2007 06:06:00 PM
Sulfur, Pyritic	<0.01	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	0.01	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100344-9
Sample Name: SHOB-27, 40-45'
Sample Date/Time: 10/26/2006 10:51:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	13200	mg/kg	BH	100	6010B	03/15/2007 10:57:00 AM
Arsenic Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:34:00 PM
Barium Dry Basis	99	mg/kg	BH	10	6010B	03/12/2007 06:34:00 PM
Boron Dry Basis	13	mg/kg	BH	100	6010B	03/12/2007 06:34:00 PM
Cadmium Dry Basis	<2	mg/kg	BH	2	6010B	03/12/2007 06:34:00 PM
Chromium Dry Basis	28	mg/kg	BH	10	6010B	03/12/2007 06:34:00 PM
Copper Dry Basis	35	mg/kg	BH	10	6010B	03/12/2007 06:34:00 PM
Iron Dry Basis	26300	mg/kg	BH	100	6010B	03/15/2007 10:57:00 AM
Lead Dry Basis	10	mg/kg	BH	10	6010B	03/12/2007 06:34:00 PM
Manganese Dry Basis	576	mg/kg	BH	10	6010B	03/12/2007 06:34:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/13/2007 04:45:00 PM
Molybdenum Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:34:00 PM
Nickel Dry Basis	37	mg/kg	BH	10	6010B	03/12/2007 06:34:00 PM
Selenium Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:34:00 PM
Sodium Dry Basis	39	mg/kg	BH	10	6010B	03/12/2007 06:34:00 PM
Zinc Dry Basis	87	mg/kg	BH	10	6010B	03/12/2007 06:34:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 03:52:00 PM
ICP/AA Batch#/Digest Date	1721	----	BH		3050B-M	03/09/2007 11:15:00 AM
Mercury Batch #/Digest Date	668	----	KC		7471B	03/12/2007 11:15:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100343-27
Sample Name: SHOB-29, 35-40'
Sample Date/Time: 10/26/2006 08:34:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	12400	mg/kg	BH	100	6010B	03/15/2007 11:00:00 AM
Arsenic Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:37:00 PM
Barium Dry Basis	84	mg/kg	BH	10	6010B	03/12/2007 06:37:00 PM
Boron Dry Basis	10	mg/kg	BH	100	6010B	03/12/2007 06:37:00 PM
Cadmium Dry Basis	<2	mg/kg	BH	2	6010B	03/12/2007 06:37:00 PM
Chromium Dry Basis	25	mg/kg	BH	10	6010B	03/12/2007 06:37:00 PM
Copper Dry Basis	41	mg/kg	BH	10	6010B	03/12/2007 06:37:00 PM
Iron Dry Basis	23100	mg/kg	BH	100	6010B	03/15/2007 11:00:00 AM
Lead Dry Basis	12	mg/kg	BH	10	6010B	03/12/2007 06:37:00 PM
Manganese Dry Basis	310	mg/kg	BH	10	6010B	03/12/2007 06:37:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/13/2007 04:45:00 PM
Molybdenum Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:37:00 PM
Nickel Dry Basis	38	mg/kg	BH	10	6010B	03/12/2007 06:37:00 PM
Selenium Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:37:00 PM
Radium Dry Basis	32	mg/kg	BH	10	6010B	03/12/2007 06:37:00 PM
Zinc Dry Basis	92	mg/kg	BH	10	6010B	03/12/2007 06:37:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 03:55:00 PM
ICP/AA Batch#/Digest Date	1721	---	BH		3050B-M	03/09/2007 11:15:00 AM
Mercury Batch #/Digest Date	668	---	KC		7471B	03/12/2007 11:15:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100345-19
Sample Name: SHOB-32, 15-20'
Sample Date/Time: 10/26/2006 14:28:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	6.2	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	24.8	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	31.0	tons/1000	TD	0.5	SOBEK	04/16/2007 11:05:53 PM
Sulfur, Total	0.20	%	CC	0.01	SOBEK	04/16/2007 06:33:00 PM
Sulfur, Pyritic	0.01	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	0.18	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100328-7
Sample Name: SHOB-34, 30-35'
Sample Date/Time: 10/20/2006 12:38:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	12300	mg/kg	BH	100	6010B	03/15/2007 10:54:00 AM
Arsenic Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:30:00 PM
Barium Dry Basis	76	mg/kg	BH	10	6010B	03/12/2007 06:30:00 PM
Boron Dry Basis	12	mg/kg	BH	100	6010B	03/12/2007 06:30:00 PM
Cadmium Dry Basis	<2	mg/kg	BH	2	6010B	03/12/2007 06:30:00 PM
Chromium Dry Basis	24	mg/kg	BH	10	6010B	03/12/2007 06:30:00 PM
Copper Dry Basis	33	mg/kg	BH	10	6010B	03/12/2007 06:30:00 PM
Iron Dry Basis	20500	mg/kg	BH	100	6010B	03/15/2007 10:54:00 AM
Lead Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:30:00 PM
Manganese Dry Basis	326	mg/kg	BH	10	6010B	03/12/2007 06:30:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/13/2007 04:45:00 PM
Molybdenum Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:30:00 PM
Nickel Dry Basis	39	mg/kg	BH	10	6010B	03/12/2007 06:30:00 PM
Selenium Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:30:00 PM
Sodium Dry Basis	33	mg/kg	BH	10	6010B	03/12/2007 06:30:00 PM
Zinc Dry Basis	84	mg/kg	BH	10	6010B	03/12/2007 06:30:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 03:28:00 PM
ICP/AA Batch#/Digest Date	1721	---	BH		3050B-M	03/09/2007 11:15:00 AM
Mercury Batch #/Digest Date	668	---	KC		7471B	03/12/2007 11:15:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110088-20
Sample Name: SHOB-36, 15-20
Sample Date/Time: 10/27/2006 08:36:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	6060	mg/kg	KC	100	6010B	03/19/2007 07:25:00 PM
Arsenic Dry Basis	24	mg/kg	AH	10	6010B	03/06/2007 04:22:00 PM
Barium Dry Basis	452	mg/kg	AH	10	6010B	03/06/2007 04:22:00 PM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 04:22:00 PM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 04:22:00 PM
Chromium Dry Basis	19	mg/kg	AH	10	6010B	03/06/2007 04:22:00 PM
Copper Dry Basis	29	mg/kg	AH	10	6010B	03/06/2007 04:22:00 PM
Iron Dry Basis	28300	mg/kg	AH	100	6010B	03/07/2007 09:50:00 PM
Lead Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:22:00 PM
Manganese Dry Basis	260	mg/kg	AH	10	6010B	03/06/2007 04:22:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/02/2007 11:00:00 AM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:22:00 PM
Nickel Dry Basis	14	mg/kg	AH	10	6010B	03/06/2007 04:22:00 PM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:22:00 PM
Radium Dry Basis	33	mg/kg	AH	10	6010B	03/06/2007 04:22:00 PM
Zinc Dry Basis	34	mg/kg	AH	10	6010B	03/06/2007 04:22:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 02:05:00 PM
ICP/AA Batch#/Digest Date	1708	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	664	---	KC		7471B	03/01/2007 12:00:00 PM
Acid Potential	21.6	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	26.6	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:00 PM
Neutralization Potential	48.2	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:17 PM
Sulfur, Total	0.69	%	CC	0.01	SOBEK	04/16/2007 07:39:00 PM
Sulfur, Pyritic	0.08	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	0.44	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Client: GOLDER ASSOCIATES, INC.
Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110088-8
Sample Name: SHOB-37, 35-40
Sample Date/Time: 10/27/2006 07:44:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	2.5	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	104	tons/1000	TD	0.5	SOBEK	04/18/2007 06:58:46 PM
Neutralization Potential	107	tons/1000	TD	0.5	SOBEK	04/18/2007 06:58:46 PM
Sulfur, Total	0.08	%	CC	0.01	SOBEK	04/16/2007 07:34:00 PM
Sulfur, Pyritic	<0.01	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	0.08	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100344-31
Sample Name: SHOB-38, 15-20'
Sample Date/Time: 10/26/2006 12:41:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	10.9	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	52.6	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	63.5	tons/1000	TD	0.5	SOBEK	04/16/2007 11:05:52 PM
Sulfur, Total	0.35	%	CC	0.01	SOBEK	04/16/2007 06:08:00 PM
Sulfur, Pyritic	0.03	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	0.32	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100344-35
Sample Name: SHOB-38, 35-40'
Sample Date/Time: 10/26/2006 12:48:6
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	4.4	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	17.2	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	21.6	tons/1000	TD	0.5	SOBEK	04/16/2007 11:05:52 PM
Sulfur, Total	0.14	%	CC	0.01	SOBEK	04/16/2007 06:10:00 PM
Sulfur, Pyritic	<0.01	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	0.14	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110073-16
Sample Name: SHOB-39 15-20
Sample Date/Time: 10/25/2006 09:31:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	13800	mg/kg	KC	100	6010B	03/19/2007 07:15:00 PM
Arsenic Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:06:00 PM
Barium Dry Basis	161	mg/kg	AH	10	6010B	03/06/2007 04:06:00 PM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 04:06:00 PM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 04:06:00 PM
Chromium Dry Basis	27	mg/kg	AH	10	6010B	03/06/2007 04:06:00 PM
Copper Dry Basis	35	mg/kg	AH	10	6010B	03/06/2007 04:06:00 PM
Iron Dry Basis	22000	mg/kg	AH	100	6010B	03/07/2007 09:50:00 PM
Lead Dry Basis	14	mg/kg	AH	10	6010B	03/06/2007 04:06:00 PM
Manganese Dry Basis	202	mg/kg	AH	10	6010B	03/06/2007 04:06:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/02/2007 11:00:00 AM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:06:00 PM
Nickel Dry Basis	49	mg/kg	AH	10	6010B	03/06/2007 04:06:00 PM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:06:00 PM
Radium Dry Basis	38	mg/kg	AH	10	6010B	03/06/2007 04:06:00 PM
Zinc Dry Basis	101	mg/kg	AH	10	6010B	03/06/2007 04:06:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 02:05:06 PM
ICP/AA Batch#/Digest Date	1708	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	664	---	KC		7471B	03/01/2007 12:00:00 PM
Acid Potential	10.3	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	10.2	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	20.5	tons/1000	TD	0.5	SOBEK	04/16/2007 11:05:48 PM
Sulfur, Total	0.33	%	CC	0.01	SOBEK	04/16/2007 06:45:00 PM
Sulfur, Pyritic	0.02	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	0.29	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110088-37
Sample Name: SHOB-40, 10-15
Sample Date/Time: 10/27/2006 09:34:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	0.9	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	64.8	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:00 PM
Neutralization Potential	65.7	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:18 PM
Sulfur, Total	0.03	%	CC	0.01	SOBEK	04/16/2007 07:43:00 PM
Sulfur, Pyritic	<0.01	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	0.03	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110088-39
Sample Name: SHOB-40, 20-25
Sample Date/Time: 10/27/2006 09:45:
Collected by: JOSH ELLIOTT
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	7000	mg/kg	BH	20	6010B	03/15/2007 11:07:00 AM
Arsenic Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:50:00 PM
Barium Dry Basis	1220	mg/kg	BH	5	6010B	03/12/2007 06:50:00 PM
Boron Dry Basis	<100	mg/kg	BH	100	6010B	03/12/2007 06:50:00 PM
Cadmium Dry Basis	<2	mg/kg	BH	2	6010B	03/12/2007 06:50:00 PM
Chromium Dry Basis	11	mg/kg	BH	2	6010B	03/12/2007 06:50:00 PM
Copper Dry Basis	16	mg/kg	BH	10	6010B	03/12/2007 06:50:00 PM
Iron Dry Basis	16700	mg/kg	BH	50	6010B	03/15/2007 11:07:00 AM
Lead Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:50:00 PM
Manganese Dry Basis	118	mg/kg	BH	2	6010B	03/12/2007 06:50:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/13/2007 04:45:00 PM
Molybdenum Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:50:00 PM
Nickel Dry Basis	16	mg/kg	BH	5	6010B	03/12/2007 06:50:00 PM
Selenium Dry Basis	<10	mg/kg	BH	10	6010B	03/12/2007 06:50:00 PM
Radium Dry Basis	19	mg/kg	BH	5	6010B	03/12/2007 06:50:00 PM
Zinc Dry Basis	29	mg/kg	BH	2	6010B	03/12/2007 06:50:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 03:28:00 PM
ICP/AA Batch#/Digest Date	1721	---	BH		3050B-M	03/09/2007 11:15:00 AM
ICPMS Batch#/Digest Date	NA	---	---	---	---	
Mercury Batch #/Digest Date	668	---	KC		7471B	03/12/2007 11:15:00 AM
Acid Potential	40.9	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	-33.3	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:00 PM
Neutralization Potential	7.6	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:18 PM
Sulfur, Total	1.31	%	CC	0.01	SOBEK	04/16/2007 07:45:00 PM
Sulfur, Pyritic	0.13	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	0.59	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100325-4
Sample Name: SHOB-41, 15-20'
Sample Date/Time: 10/14/2006 07:38:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	10000	mg/kg	KC	100	6010B	03/19/2007 06:49:00 PM
Arsenic Dry Basis	14	mg/kg	AH	10	6010B	03/06/2007 03:39:00 PM
Barium Dry Basis	161	mg/kg	AH	10	6010B	03/06/2007 03:39:00 PM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 03:39:00 PM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 03:39:00 PM
Chromium Dry Basis	16	mg/kg	AH	5	6010B	03/06/2007 03:39:00 PM
Copper Dry Basis	147	mg/kg	AH	10	6010B	03/06/2007 03:39:00 PM
Iron Dry Basis	18700	mg/kg	AH	100	6010B	03/07/2007 09:50:00 PM
Lead Dry Basis	14	mg/kg	AH	10	6010B	03/06/2007 03:39:00 PM
Manganese Dry Basis	297	mg/kg	AH	10	6010B	03/06/2007 03:39:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/02/2007 11:00:00 AM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 03:39:00 PM
Nickel Dry Basis	18	mg/kg	AH	10	6010B	03/06/2007 03:39:00 PM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 03:39:00 PM
Radium Dry Basis	24	mg/kg	AH	10	6010B	03/06/2007 03:39:00 PM
Zinc Dry Basis	59	mg/kg	AH	10	6010B	03/06/2007 03:39:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 02:05:00 PM
ICP/AA Batch#/Digest Date	1708	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	664	---	KC		7471B	03/01/2007 11:00:00 AM
Acid Potential	19.7	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	68.5	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	88.2	tons/1000	TD	0.5	SOBEK	04/16/2007 11:05:48 PM
Sulfur, Total	0.63	%	CC	0.01	SOBEK	04/16/2007 06:02:00 PM
Sulfur, Pyritic	0.34	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	0.25	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006100325-5
Sample Name: SHOB-41, 20-25'
Sample Date/Time: 10/14/2006 07:50:
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	5320	mg/kg	KC	100	6010B	03/19/2007 06:53:00 PM
Arsenic Dry Basis	19	mg/kg	AH	10	6010B	03/06/2007 03:43:00 PM
Barium Dry Basis	395	mg/kg	AH	10	6010B	03/06/2007 03:43:00 PM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 03:43:00 PM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 03:43:00 PM
Chromium Dry Basis	29	mg/kg	AH	10	6010B	03/06/2007 03:43:00 PM
Copper Dry Basis	21	mg/kg	AH	10	6010B	03/06/2007 03:43:00 PM
Iron Dry Basis	21200	mg/kg	AH	100	6010B	03/07/2007 09:50:00 PM
Lead Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 03:43:00 PM
Manganese Dry Basis	130	mg/kg	AH	10	6010B	03/06/2007 03:43:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/02/2007 11:00:00 AM
Molybdenum Dry Basis	7	mg/kg	AH	10	6010B	03/06/2007 03:43:00 PM
Nickel Dry Basis	22	mg/kg	AH	10	6010B	03/06/2007 03:43:00 PM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 03:43:00 PM
Strontium Dry Basis	64	mg/kg	AH	10	6010B	03/06/2007 03:43:00 PM
Zinc Dry Basis	47	mg/kg	AH	10	6010B	03/06/2007 03:43:00 PM
Uranium Dry Basis	10	mg/kg	AH	10	6020	03/13/2007 02:05:00 PM
ICP/AA Batch#/Digest Date	1708	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	664	---	KC		7471B	03/01/2007 11:00:00 AM
Acid Potential	29.4	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	33.8	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	63.2	tons/1000	TD	0.5	SOBEK	04/16/2007 11:05:48 PM
Sulfur, Total	0.94	%	CC	0.01	SOBEK	04/16/2007 06:04:00 PM
Sulfur, Pyritic	0.20	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	0.36	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110073-38
Sample Name: SHOB-43 30-35
Sample Date/Time: 10/25/2006 10:32:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Aluminum Dry Basis	15400	mg/kg	KC	100	6010B	03/19/2007 07:18:00 PM
Arsenic Dry Basis	11	mg/kg	AH	10	6010B	03/06/2007 04:10:00 PM
Barium Dry Basis	157	mg/kg	AH	10	6010B	03/06/2007 04:10:00 PM
Boron Dry Basis	<100	mg/kg	AH	100	6010B	03/06/2007 04:10:00 PM
Cadmium Dry Basis	<2	mg/kg	AH	2	6010B	03/06/2007 04:10:00 PM
Chromium Dry Basis	28	mg/kg	AH	10	6010B	03/06/2007 04:10:00 PM
Copper Dry Basis	40	mg/kg	AH	10	6010B	03/06/2007 04:10:00 PM
Iron Dry Basis	26200	mg/kg	AH	100	6010B	03/07/2007 09:50:00 PM
Lead Dry Basis	15	mg/kg	AH	10	6010B	03/06/2007 04:10:00 PM
Manganese Dry Basis	208	mg/kg	AH	10	6010B	03/06/2007 04:10:00 PM
Mercury Dry Basis	<0.1	mg/kg	KC	0.1	7471B	03/02/2007 11:00:00 AM
Molybdenum Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:10:00 PM
Nickel Dry Basis	44	mg/kg	AH	10	6010B	03/06/2007 04:10:00 PM
Selenium Dry Basis	<10	mg/kg	AH	10	6010B	03/06/2007 04:10:00 PM
Strontium Dry Basis	40	mg/kg	AH	10	6010B	03/06/2007 04:10:00 PM
Zinc Dry Basis	101	mg/kg	AH	10	6010B	03/06/2007 04:10:00 PM
Uranium Dry Basis	<10	mg/kg	AH	10	6020	03/13/2007 02:05:06 PM
ICP/AA Batch#/Digest Date	1708	---	AH		3050B-M	03/02/2007 08:00:00 AM
Mercury Batch #/Digest Date	664	---	KC		7471B	03/01/2007 12:00:00 PM
Acid Potential	15.9	tons/1000	CC	0.5	SOBEK	04/16/2007 05:40:00 PM
Acid/Base Potential	3.0	tons/1000	TD	0.5	SOBEK	04/16/2007 11:00:00 PM
Neutralization Potential	18.9	tons/1000	TD	0.5	SOBEK	04/16/2007 11:05:48 PM
Sulfur, Total	0.51	%	CC	0.01	SOBEK	04/16/2007 06:48:00 PM
Sulfur, Pyritic	0.40	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM
Sulfur, Sulfate	0.07	%	ES	0.01	SOBEK	04/24/2007 11:00:00 AM

Project Name: SOUTH HEART OVERBURDEN
Project No.: 063-2174
Laboratory No.: 2006110075-14
Sample Name: SHOB-46 15-20
Sample Date/Time: 10/25/2006 13:16:00
Collected by: RYAN TOLENE
Sample Type: OVERBURDEN

PARAMETER	MEASURED VALUE	UNITS	ANALYST	PQL	METHOD NUMBER	DATE/TIME ANALYZED
Acid Potential	64.1	tons/1000	CC	0.5	SOBEK	04/16/2007 07:11:00 PM
Acid/Base Potential	-64.1	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:00 PM
Neutralization Potential	<0.5	tons/1000	TD	0.5	SOBEK	04/17/2007 07:43:17 PM
Sulfur, Total	2.05	%	CC	0.01	SOBEK	04/16/2007 07:14:00 PM
Sulfur, Pyritic	0.05	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM
Sulfur, Sulfate	1.03	%	ES	0.01	SOBEK	04/25/2007 08:15:00 AM



Pace Analytical Services, Inc.

Billings Laboratory
602 South 25th Street
Billings, MT 59101

Phone: 406.254.7226

Fax: 406.254.1389

REPORT TO: ATTN: JACOB WAPLES
GOLDER ASSOCIATES, INC.
44 UNION BLVD.; SUITE 300
LAKEWOOD, CO 80228

DATE: February 9, 2009

JOB NUMBER: 06-933-6

PAGE: 1 of 19

REPORT OF: Overburden Soil Analysis – South Heart Power Project – Project No. 063-2174

CASE NARRATIVE:

On October 5 through November 1, 2006, these overburden soil samples were received in our laboratory for analysis. All test results have been previously submitted. The uranium dry basis concentrations have been reevaluated to a reporting limit of 5 mg/kg. A reporting limit of 10 mg/kg was previously reported. The uranium concentrations are reported herein.

Reviewed by _____

Denise Jensen – Project Manager

As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of our clients and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval. Test results apply specifically to the samples tested only. The entire report shall not be reproduced, except in full, without the written approval of the laboratory. Samples will be disposed of after testing is completed unless other arrangements are agreed to in writing.

Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART POWER PROJECT
Collected by: RYAN TOLENE
Date Received: 10/05/2006
Matrix: OVERBURDEN
Order No.: 2006100061

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

2	SHMW-04D @ 5-10'	09/26/2006	<5	mg/kg	6020	5	03/13/2007
3	SHMW-04D @ 12-14'	09/26/2006	<5	mg/kg	6020	5	03/13/2007
5	SHMW-04D @ 21-23'	09/26/2006	<5	mg/kg	6020	5	03/13/2007
8	SHMW-04D @ 37-38'	09/27/2006	<5	mg/kg	6020	5	03/13/2007
9	SHMW-04D @ 39-42'	09/27/2006	<5	mg/kg	6020	5	03/13/2007
11	SHMW-04D @ 54'	09/27/2006	<5	mg/kg	6020	5	03/13/2007
13	SHMW-04D @ 61'	09/27/2006	<5	mg/kg	6020	5	03/13/2007

Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART POWER
Collected by: WITT & ELLIOTT
Date Received: 10/05/2006
Matrix: OVERBURDEN
Order No.: 2006100062

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

10	SHMW05-43-48	10/01/2006	<5	mg/kg	6020	5	03/13/2007
12	SHMW05-57-63	10/01/2006	<5	mg/kg	6020	5	03/13/2007
21	SHMW05-105-110	10/01/2006	<5	mg/kg	6020	5	03/13/2007

Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART POWER
Collected by: ELLIOTT & WITT
Date Received: 10/05/2006
Matrix: OVERBURDEN
Order No.: 2006100063

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

1	SHMW06-21.5-25	09/27/2006	<5	mg/kg	6020	5	03/13/2007
7	SHMW06-46.5-51.5	09/27/2006	<5	mg/kg	6020	5	03/13/2007
33	SHMW06-5-8	09/27/2006	<5	mg/kg	6020	5	03/13/2007

Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART POWER PROJECT
Collected by: RYAN TOLENE
Date Received: 10/05/2006
Matrix: OVERBURDEN
Order No.: 2006100064

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

3	SHMW-10D @ 10-15'	09/29/2006	<5	mg/kg	6020	5	03/13/2007
6	SHMW-10D @ 25-30'	09/29/2006	<5	mg/kg	6020	5	03/13/2007

Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART POWER PROJECT
Collected by: WITT & ELLIOTT
Date Received: 10/09/2006
Matrix: OVERBURDEN
Order No.: 2006100095

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

9	SHMW05-146-151	10/02/2006	<5	mg/kg	6020	5	03/13/2007
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Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART OVERBURDEN
Collected by: RYAN TOLENE
Date Received: 10/17/2006
Matrix: OVERBURDEN
Order No.: 2006100178

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

5	SHOB-10 @ 20-25'	10/12/2006	<5	mg/kg	6020	5	03/13/2007
20	SHOB-14 @ 35-40'	10/12/2006	<5	mg/kg	6020	5	03/13/2007
32	BD-RT-04	10/12/2006	INS	----		5	

Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART OVERBURDEN
Collected by: RYAN TOLENE
Date Received: 10/19/2006
Matrix: OVERBURDEN
Order No.: 2006100195

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

6	SHOB-12; 25-30'	10/16/2006	<5	mg/kg	6020	5	03/13/2007
10	SHOB-12; 45-50'	10/16/2006	<5	mg/kg	6020	5	03/13/2007

Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART OVERBURDEN
Collected by: RYAN TOLENE
Date Received: 10/18/2006
Matrix: OVERBURDEN
Order No.: 2006100325

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

4	SHOB-41, 15-20'	10/14/2006	<5	mg/kg	6020	5	03/13/2007
5	SHOB-41, 20-25'	10/14/2006	10	mg/kg	6020	5	03/13/2007

Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART OVERBURDEN
Collected by: RYAN TOLENE
Date Received: 10/25/2006
Matrix: OVERBURDEN
Order No.: 2006100328

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

7	SHOB-34, 30-35'	10/20/2006	<5	mg/kg	6020	5	03/13/2007
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Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART OVERBURDEN
Collected by: RYAN TOLENE
Date Received: 10/31/2006
Matrix: OVERBURDEN
Order No.: 2006100343

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

27	SHOB-29, 35-40'	10/26/2006	<5	mg/kg	6020	5	03/13/2007
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Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART OVERBURDEN
Collected by: RYAN TOLENE
Date Received: 10/31/2006
Matrix: OVERBURDEN
Order No.: 2006100344

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

9	SHOB-27, 40-45'	10/26/2006	<5	mg/kg	6020	5	03/13/2007
36	SHOB-38, 40-45'	10/26/2006	<5	mg/kg	6020	5	03/13/2007

Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART OVERBURDEN
Collected by: JOSH ELLIOTT
Date Received: 11/01/2006
Matrix: OVERBURDEN
Order No.: 2006110029

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

13	SHOB-23, 60-65	10/29/2006	<5	mg/kg	6020	5	03/13/2007
27	SHOB-24, 40-45	10/29/2006	<5	mg/kg	6020	5	03/13/2007

Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART OVERBURDEN
Collected by: RYAN TOLENE
Date Received: 11/01/2006
Matrix: OVERBURDEN
Order No.: 2006110073

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

16	SHOB-39 15-20	10/25/2006	<5	mg/kg	6020	5	03/13/2007
38	SHOB-43 30-35	10/25/2006	<5	mg/kg	6020	5	03/13/2007

Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART OVERBURDEN
Collected by: JOSH ELLIOTT
Date Received: 11/01/2006
Matrix: OVERBURDEN
Order No.: 2006110086

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

12	SHOB-08, 55-60	10/27/2006	<5	mg/kg	6020	5	03/13/2007
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Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART OVERBURDEN
Collected by: RYAN TOLENE
Date Received: 11/01/2006
Matrix: OVERBURDEN
Order No.: 2006110088

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

20	SHOB-36, 15-20	10/27/2006	7	mg/kg	6020	5	03/13/2007
39	SHOB-40, 20-25	10/27/2006	<5	mg/kg	6020	5	03/13/2007

Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART OVERBURDEN
Collected by: JOSH ELLIOTT
Date Received: 11/01/2006
Matrix: OVERBURDEN
Order No.: 2006110089

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
Uranium Dry Basis							
3	BD-JE-43	10/28/2006	<5	mg/kg	6020	5	03/13/2007
7	BD-JE-47	10/28/2006	<5	mg/kg	6020	5	03/13/2007
48	SHOB-19, 10-15	10/28/2006	<5	mg/kg	6020	5	03/13/2007

Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART OVERBURDEN
Collected by: JOSH ELLIOTT
Date Received: 11/01/2006
Matrix: OVERBURDEN
Order No.: 2006110090

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

27	SHOB-09, 25-30	10/28/2006	<5	mg/kg	6020	5	03/13/2007
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Client Name: GOLDER ASSOCIATES, INC.
Project No.: 063-2174
Project Name: SOUTH HEART OVERBURDEN
Collected by: JOSH ELLIOTT
Date Received: 11/01/2006
Matrix: OVERBURDEN
Order No.: 2006110091

Sample Number	Description	Date Collected	Measured Value	Test Units	Test Method	PQL Value	Date of Analysis
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Uranium Dry Basis

7	SHOB-04, 30-35	10/28/2006	<5	mg/kg	6020	5	03/13/2007
17	SHOB-01, 25-30	10/28/2006	<5	mg/kg	6020	5	03/13/2007

Ground Water Leaching Procedure Results

Groundwater Synthetic Precipitation Leaching Procedure

Groundwater Leaching

Client Sample Name	Arsenic by 200.8 mg/l	Arsenic by 3114C mg/l	Original result	Extraction Date	Laboratory No.
SHOB-15 75-79	0.028	0.031	0.088	11/15/07	200610019314
SHOB-30 45-50	0.023	0.021	0.058	11/15/07	200610032721
SHOB-12 45-50	0.012	0.011	0.032	11/15/07	200610019510
SHOB-35 35-40	0.010	0.011	0.03	11/15/07	200611007308
SHOB-37 55-60	0.008	0.007	0.022	11/15/07	200611008812
SHMW-05 146-151	0.008	0.008	0.018	11/15/07	200610009509
SHOB-45 25-30	<0.003	<0.003	<0.001	11/15/07	200610034306
SHOB-28 40-45	<0.003	0.004	<0.001	11/15/07	200610034342
SHOB-26 10-15	<0.003	<0.003	<0.001	11/15/07	200610034503
Method Blank	<0.003	<0.003		11/15/07	
Laboratory Control Sample	106 [85-115]	103 % [80-120]		11/15/07	
Test Matrix Spike	93 [80-124]	100 % [70-130]		11/15/07	
Extraction Matrix Spike	108 % [no limit]	110 % [no limit]		11/15/07	
Extracton Blank	<0.003	<0.003		11/15/07	
Extraction Duplicate	0 RPD [0-20]	AVD=RL		11/15/07	
Test Duplicate	0 RPD [0-20]	9 RPD [0-20]		11/15/07	
Date Analyzed	11/17/2007	11/19/2007		11/15/07	

Synthetic Precipitation Leaching

Client Sample Name	SPLP Arsenic by 3114C, mg/l	Arsenic by 200.8 mg/l	Original result	Extraction Date	Laboratory No.
SHOB-17 25-30	----	----	<0.001	----	----
SHOB-26 10-15	----	----	<0.001	----	----
SHOB-38 35-40	0.036	0.036	<0.001	4/11/2007	2000110073-8
SHOB-37 55-60	0.023	0.023	0.022	4/16/2007	2000110088-12
SHOB-09 70-75	0.028	----	0.025	08/15/07	2000110090-36
SHOB-35 35-40	----	----	0.03	----	----
SHOB-12 45-50	0.036	0.032	0.032	4/9/2007	2000100195-10
SHMW-04D 61-61	----	----	0.082	----	----
SHOB-39 40-45	0.094	0.11	0.11	4/11/2007	2000110073-27
SHOB-10 55-60	0.20	0.16	0.16	4/4/2007	2000100178-11
SHOB-39 40-45 Extract Duplicate	0.10	----		4/11/2007	2000110073-27
Date Analyzed	11/19/2007				