

SKYLINE[®]

ASSAYERS & LABORATORIES

For All Your Analytical Needs - From Exploration Through Development

2024

Schedule of Services and Fees



*Single use crucibles
for all clients*

In compliance with
International Controls
Disclosure for Securities
and Exchange Commission
17 CFR Parts 229

In compliance with
Ontario Securities and
Exchange Commission
NI 43-101, Part 3.2
www.skylinelabs.com/notices



ISO 9001



Certificate #2953.01
ISO/IEC 17025:2017
Certificate & Scope available at
www.skylinelabs.com/iso

SkylineLabs.com

About Us

History of Skyline Assayers & Laboratories

Skyline Laboratories, Inc. purchased the assets of Hawley and Hawley Assayers & Chemists, Tucson, Arizona in 1973. Hawley and Hawley Assayers was recognized as one of the leading minerals laboratories in the Southwest with over 60 years experience in the Copper Industry. In 1997 Skyline Laboratories, Inc. was purchased by Actlabs, Inc. and began "doing business as" Actlabs-Skyline. As of January 1, 2006 the laboratory again became independent. Skyline Assayers & Laboratories is the d.b.a of Arizona Assayers Inc. Skyline is recognized as an industry leader for base metals, ferrous, and non-ferrous analyses of ores, and umpire assays of metallurgical products. The Tucson laboratory continues to provide the same high quality analytical service to the Copper Mining Industry as it has for over a century.

Staff

J. Robert Clark, Ph.D. **Chairman, Geologist/Geochemist**

Dr. Clark is the sole owner of Skyline Assayers & Laboratories. Dr. Clark is the inventor of the **Enzyme Leach®** and he co-developed the MAGIC organic extraction system that has been widely used in a variety of analytical disciplines.

John P. Rosso **President**

Known as "JP", his career spans 40+ years in non-ferrous metals refining & manufacturing, working with a broad range of non-ferrous metals, including all six (6) precious metals. Primary industries served have been mining, petroleum, and petrochemicals. Throughout his career, he has held simultaneous roles leading both domestic & international business development teams, in addition to laboratory, refining, & production operations management.

Meagan Sias **Laboratory Operations Manager**

Meagan Sias has been employed in the mining industry since 2006. She has experience in management and quality control within several mining departments, including SX/EW, exploration, client services, and production samples. Meagan also has multiple years of experience with various laboratory instrumentation including ICP-OES and ICP-MS.

Mike Jacobson **Chief Assayer, Arizona Assayer Emeritus, No. 52700**

Mike Jacobson has been with Skyline Labs since 2006. Graduate of the University of Arizona with a Bachelor of Science in Mathematics. Mike has over 15 years' experience in laboratory operations, including precious metals fire assay technique, instrumental analysis by AAS, ICP-OES, ICP-MS, and analysis of Base Metals, Fluorine, Acid Consumption, and Gypsum. Mike obtained his Registered Assayer Certification in 2011, and currently retains the status "Assayer Emeritus".

Sam Kinslow **Quality Control Analyst**

Sam Kinslow is a graduate of the University of Arizona with a B.S. in Applied Mathematics. Sam has experience with statistical analysis, sampling theory, and quality control.

Bill Lehmbeck **Consultant, Geologist, Arizona Assayer Emeritus No. 9425**

Bill Lehmbeck is a former co-owner of Skyline Labs. Bill was Manager of the Tucson operation from 1973 through 2000, and has served as consultant to the laboratory since 2001.

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Tucson Laboratory Campus:

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Services

- Custom trace analyses and assays of ores, rocks, soils, sediments, and natural waters.
- ***Enzyme Leach® VI.***
- Analysis of concentrates and high grades
- Metallurgical analyses
- Whole Rock Analyses for major, minor, and trace elements
- Regional sample pickup services, competitive freight services for bulk and pulp samples throughout the Contiguous U.S. and Northern Mexico

Laboratory Facilities

The following methods of analysis are available

- Fire Assay (gravimetric or AA finish)
- Atomic Absorption (AA)
- ICP-OES
- ICP-MS (including water, ***Enzyme Leach®***)
- Titration
- XRF (X-Ray fluorescence)

Sample Submittal and Chain of Custody forms are available online at www.skylinelabs.com

All Orders are subject to a minimum charge of USD\$800.00

*** Special "RUSH ORDERS" at 3x the regular price and subject to availability of equipment and personnel to accomodate.**

We're happy to discuss your "Special Project" Assay needs!

Sample Preparation

DETERMINATIONS

PRICE PER
SAMPLE

Sample Preparation (CODE SP)

SP-1	Crush (up to 5kg) to plus 75% -10 mesh, split and pulverize with standard steel to plus 95% -150 mesh	\$13.35
SP-1A	Option A: Weight: 6kg to 10kg	\$18.00
SP-3	Oversize charge per kg in excess of 10kg, less than 25kg for SP-1 and SP-7	\$1.25
SP-5	Pulverization only (standard steel) - coarse pulp or crushed rock (minus ½ inch) ≤ 400g	\$7.75
SP-7	Crush only (up to 5 kg) to plus 75% -10 mesh	\$7.75
SP-7A	Option A: Weight: 6kg to 10kg	\$10.25
SP-9	Compositing (by weight) per client request (requires homogenizing at \$6.00 per composite)	Call for pricing
SP-10	Drying of wet or damp samples submitted in cloth bags at 105 °C	\$2.30
SP-10A	Drying of excessively wet samples (cloth bags) / kg	\$0.85
SP-11	Drying of wet or damp samples submitted in plastic bags at 105 °C	\$3.30
SP-11A	Drying of excessively wet samples (plastic bags) / kg	\$1.50
SP-12	Verifying quality of pulps or rejects prepared by other labs and issuing report	Call for pricing
SP-13A	Cleaning between samples - coarse crusher	\$4.00
SP-13B	Cleaning between samples - pulverizer	\$5.00
SP-14	Screen Analysis (requires SS-3)	\$25.45
SP-15	Core Cutting	Call for pricing
SP-16	Re-blending historical pulps	\$3.75
SP-17A	Extra split of coarse reject material: 1500g in 32oz plastic jar	\$3.50
SP-17B	Extra split of coarse reject material: 3000g in 64oz plastic jar	\$4.00
SP-18	Additional split of pulp material	\$3.75
SP-19	Report weight of original sample as received	\$1.65
SP-22	Cone crusher preparation	\$35.00
SP-23	1000g pulp	\$5.00
SP-31	Custom prep procedures not cited above. E.G. Bottle roll, Cone crusher, large volume pulps	Call for pricing



Sample Preparation

DETERMINATIONS

PRICE PER SAMPLE

Soils, Stream, Sediments (CODE SS)

SS-1	Drying (60 °C) and sieving (-80 mesh) – save all portions	\$7.25 + \$2.25/kg in excess of 2 kg
SS-2	Drying (60 °C) and sieving (-80 mesh) – discard oversize	\$7.25 + \$2.25/kg in excess of 2 kg
SS-3	Sieve size fractions and bracket sieving, add per fraction	\$3.45
SS-4	Wet or damp samples submitted in plastic bags	\$3.10

Sample Logging (CODE RS)

RS-1	Randomization of samples for analysis, per client request	\$2.30
RS-3	Sorting chaotic shipments	Client will be notified of charges

Sample Storage and Handling (CODE SH)

SH-1*	Return of all reject portions and/or pulps (No charge if combined with sample pick-up)	\$2.30/mi round-trip
SH-3	Monthly storage of rejects after 60 days after invoicing	\$0.50/sample
SH-4	Monthly storage of pulps after 60 days after invoicing	\$0.30/sample
SH-5	Disposal of reject portions and/or pulps	\$152.25/pallet < 1500lbs.
SH-6*	Sample pick-up/delivery may be arranged to meet client needs	\$2.30/mi round-trip
SH-7	Palletization of pulps for return	\$50/pallet
SH-8	Testing for 'hazardous material' (i.e. asbestos)	\$288.75 labor + test costs
*Add on 'A'	Shipping by third party carrier	Cost +10%



Quantitative Instrumental Analyses & Routine Assays

DETERMINATIONS		PRICE PER SAMPLE	DETERMINATIONS		PRICE PER SAMPLE
Routine 3-Acid Single Assays (CODE SEA)					
SEA-Al	Aluminum	\$24.55	SEA-oxMo	Molybdenum - Oxide	\$20.45
SEA-Sb	Antimony	\$24.55	SEA-Ni	Nickel	\$13.85
SEA-As	Arsenic	\$24.55	SEA-K	Potassium	\$24.55
SEA-Ba	Barium (instrumental)	\$24.55	SEA-Si	Silicon	\$27.30
SEA-Bi	Bismuth	\$24.55	SEA-Ag-HF	Silver 4 acid digestion with HF	\$16.15
SEA-Cd	Cadmium	\$24.55		Silver (AR/AA ppm)	See Code FA on Page 8
SEA-Ca	Calcium	\$24.55	SEA-Na	Sodium	\$24.55
SEA-Cr	Chromium	\$27.25	SEA-Sr	Strontium	\$24.55
SEA-Co	Cobalt	\$14.05		Sulfur (infrared)	See Code WR-S on Pg 14
SEA-Cu	Copper (total)	\$12.85	SEA-Ti	Titanium	\$24.55
SEA-CuCN	Copper (CN soluble)	\$12.85	SEA-U	Uranium (ICP-MS, low level) - U ₃ O ₈	\$23.20
SEA-CuAS	Copper (acid soluble)	\$12.85	SEA-V	Vanadium	\$23.20
SEA-CuFS	Copper (ferric sulfate soluble)	\$13.55	SEA-Zn	Zinc	\$12.85
SEA-Cu-Li	Copper (long iodide titration)	\$140.00	SEA-MI-1	Acid Consumption (Rapid Method)	\$37.20
SEA-CuSAP	Copper (hot ferric sulfate soluble)	\$13.65	SEA-MI-6	Specific Gravity- Dry Bulk Density	\$34.70
SEA-CuSEQ	Copper (sequential analysis)	\$26.65		*Addition of HF, per sample	\$6.85
	Gold	See Code FA on Pg 8			
	Gold-Silver	See Code FA on Pg 8			
SEA-Fe	Iron	\$20.45			
SEA-Pb	Lead	\$12.85			
SEA-Mn	Manganese	\$24.55			
SEA-Mg	Magnesium	\$24.55			
SEA-Mo	Molybdenum	\$13.65			

Element	Reporting Limits	Element	Reporting Limits	Element	Reporting Limits
Al	0.01 - 10%	CuCN	0.01 - 10%	OxMo	0.001 - 1%
Sb	0.01 - 10%	CuAS	0.01 - 10%	Ni	0.01 - 10%
As	0.01 - 1%	CuFS	0.01 - 10%	K	0.01 - 25%
Ba	0.01 - 1%	CuSAP	0.01 - 10%	Si	0.01 - 1%
Bi	0.01 - 1%	CuSEQ	0.005 - 10%	Na	0.01 - 25%
Cd	0.01 - 1%	Fe	0.01 - 25%	Sr	0.01 - 1%
Ca	0.01 - 25%	Pb	0.01 - 10%	Ti	0.01 - 1%
Cr	0.01 - 10%	Mn	0.01 - 10%	U	0.01 - 1%
Co	0.01 - 10%	Mg	0.01 - 10%	V	0.01 - 1%
Cu	0.01 - 10%	Mo	0.01 - 10%	Zn	0.01 - 10%

Quantitative Instrumental Analyses & Routine Assays

DETERMINATIONS

PRICE PER
SAMPLE

Multi-Element 3-Acid Assays by ICP-OES (CODE MEA)

MEA: See elements in Table below*

MEA-2: Specify elements chosen	First 2 elements	\$18.75
MEA-X: Specify elements chosen	each additional element	\$4.30
MEA-HF: addition of HF	per sample	\$6.85

Element	Reporting Limits	Element	Reporting Limits
Ca	0.01 - 25%	Mg	0.01 - 10%
Co	0.01 - 10%	Mo	0.01 - 10%
Cu	0.01 - 10%	Ni	0.01 - 10%
Fe	0.01 - 25%	Zn	0.01 - 10%
Pb	0.01 - 10%		

SEA and MEA analyses of Concentrates and High Grades available: cost to be determined per project, with an \$800 minimum charge.

Element	Reporting Limits	Element	Reporting Limits	Element	Reporting Limits
Al	0.01 - 10%	CuCN	0.01 - 10%	OxMo	0.001 - 1%
Sb	0.01 - 10%	CuAS	0.01 - 10%	Ni	0.01 - 10%
As	0.01 - 1%	CuFS	0.01 - 10%	K	0.01 - 25%
Ba	0.01 - 1%	CuSAP	0.01 - 10%	Si	0.01 - 1%
Bi	0.01 - 1%	CuSEQ	0.005 - 10%	Na	0.01 - 25%
Cd	0.01 - 1%	Fe	0.01 - 25%	Sr	0.01 - 1%
Ca	0.01 - 25%	Pb	0.01 - 10%	Ti	0.01 - 1%
Cr	0.01 - 10%	Mn	0.01 - 10%	U	0.01 - 1%
Co	0.01 - 10%	Mg	0.01 - 10%	V	0.01 - 1%
Cu	0.01 - 10%	Mo	0.01 - 10%	Zn	0.01 - 10%

Cyanide Soluble and Solutions (CODE CN)

CN-1H	Au cyanide soluble 0.03-100 ppm 2 hour (Hot)	\$18.60
CN-1C	Au cyanide soluble 0.03-100 ppm 2 hour (Cold)	\$18.60
CN-2	Au, Ag cyanide soluble 0.03-100 / 0.03-100ppm 2 hour	\$21.50
CN-3	Additional elements for shake leach	\$6.80
CN-4	Single element solution analysis 0.03 ppm	\$14.90
CN-5	Additional element analysis on solutions 0.03 ppm	\$6.20

FA and CN analyses of Concentrates and High Grades available: cost determined per project. \$800 minimum charge.

Precious Metals

DETERMINATIONS

PRICE PER
SAMPLE

Precious Metals Ag, Au / Pd, Pt, Rh, Ru, Ir		
FA-1	Au Fire Assay - AA (geochem) 5-5,000 ppb, 30 g	\$22.30
FA-1-40g	Au Fire Assay - AA (geochem) 5-5,000 ppb, 40 g	\$23.50
FA-1-50g	Au Fire Assay - AA (geochem) 5-5,000 ppb, 50 g	\$23.50
FA-2	Au Fire Assay - Gravimetric (assay) 0.03-1,000 g/mt, 30 g	\$24.80
FA-2-40g	Au Fire Assay - Gravimetric (assay) 0.03-1,000 g/mt, 40 g	\$26.65
FA-2-50g	Au Fire Assay - Gravimetric (assay) 0.03-1,000 g/mt, 50 g	\$26.65
FA-3	Au, Ag Fire Assay - Gravimetric (assay) 0.03-1,000 g/mt, 3-1,000 g/mt, 30 g	\$28.50
FA-3-40g	Au, Ag Fire Assay - Gravimetric (assay) 0.03-1,000 g/mt, 3-1,000 g/mt, 40 g	\$30.40
FA-3-50g	Au, Ag Fire Assay - Gravimetric (assay) 0.03-1,000 g/mt, 3-1,000 g/mt, 50 g	\$30.40
FA-4	Ag Fire Assay - Gravimetric (assay) 3-1,000 g/mt (Au not deducted), 30 g	\$22.95
FA-4-40g	Ag Fire Assay - Gravimetric (assay) 3-1,000 g/mt (Au not deducted), 40 g	\$24.80
FA-4-50g	Ag Fire Assay - Gravimetric (assay) 3-1,000 g/mt (Au not deducted), 50 g	\$24.80
FA-5	Au Fire Assay - Metallic Screen (assay) 0.03-1,000 g/mt (300 g sub-sample)	\$111.55
FA-6	Au Fire Assay - Metallic Screen (assay) 0.03-1,000 g/mt (1000 g sub-sample)	\$136.30
FA-7	Fire Assay + ICP-MS (Au 5 ppb, Pt 5 ppb, Pd 5 ppb)	\$30.95
FA-8	Ag by Aqua Regia/AA (geochem) 0.1-150 ppm	\$9.85
FA-MC-Au	Au Umpire Assay	\$204.45
FA-MC-AuAg	Au, Ag Umpire Assay	\$247.80
FA-PGMs-a	NiS Fire Assay ICP-MS	1-2 samples: \$360.00/ea
FA-PGMs-b	NiS Fire Assay ICP-MS	3+ samples: \$180.00/ea



Trace Element Geochemistry

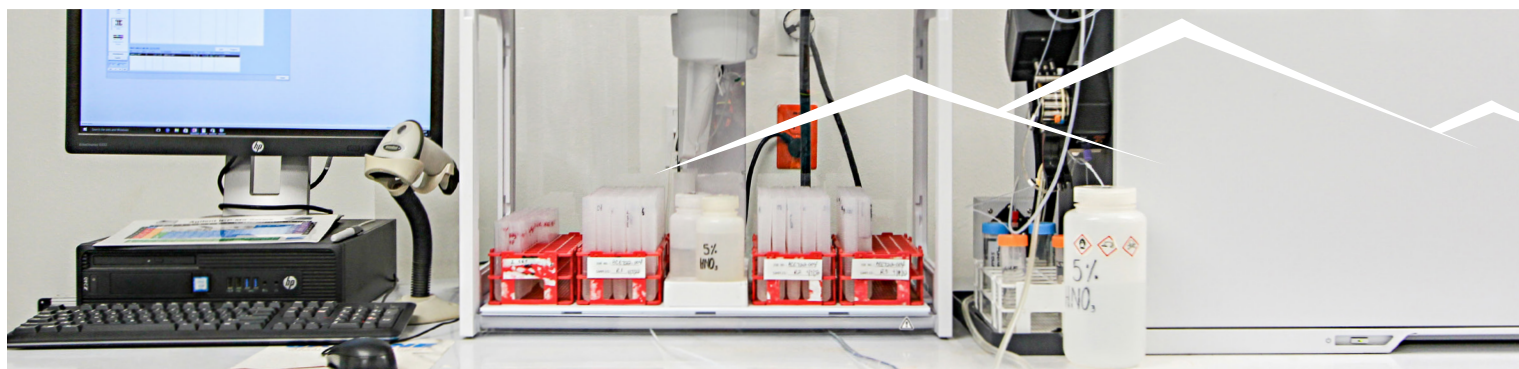
DETERMINATIONS

PRICE PER
SAMPLE

Trace Element Geochemistry (CODE TE) (See following tables)

TE-2	Trace Elements by Aqua Regia leach, ICP-OES (31 elements)	\$17.35
TE-3	Trace Elements by Aqua Regia leach, ICP-OES/ICP-MS (49 elements)	\$24.80
TE-4	Trace Elements by Multi Acid (with HF) near total digestion, ICP-OES (24 elements)	\$21.70
TE-5	Trace Elements by Multi Acid (with HF) near total digestion, ICP-OES/ICP-MS (47 elements)	\$27.30
TE-7	Trace Elements by Multi Acid (with HF), Hg, Se by Aqua Regia, ICP-OES/ICP-MS (49 elements)	\$33.45
TE-7 +Au	Trace Elements by Multi Acid (with HF), Hg, Se, Au by Aqua Regia, ICP-OES/ICP-MS (50 elements)	\$39.65

TE analyses of Concentrates and High Grades available for \$226.20 per sample, \$800.00 minimum charge.



TE-2: Trace Elements by Aqua Regia Leach, ICP-OES (31 elements)

Element	Reporting Limits	Element	Reporting Limits	Element	Reporting Limits
Ag	0.2 - 150 ppm	Fe *	0.01 - 10 %	Sb	0.05 - 1000 ppm
Al *	0.01 - 10 %	K *	0.01 - 10 %	Sc *	1 - 1000 ppm
As	5 - 1000 ppm	La *	10 - 10000 ppm	Sr *	1 - 1000 ppm
Ba *	10 - 1000 ppm	Mg *	0.01 - 10 %	Ti *	0.01 - 1 %
Be *	0.5 - 1000 ppm	Mn	5 - 10000 ppm	Tl *	10 - 1000 ppm
Bi	5 - 1000 ppm	Mo	2 - 1000 ppm	V *	1 - 1000 ppm
Ca *	0.01 - 10 %	Na *	0.01 - 10 %	W *	10 - 1000 ppm
Cd	1 - 1000 ppm	Ni	1 - 10000 ppm	Zn	1 - 10000 ppm
Co	1 - 10000 ppm	P *	0.001 - 1 %	Zr *	1 - 10000 ppm
Cr *	1 - 10000 ppm	Pb	2 - 10000 ppm		
Cu	1 - 10000 ppm	S **	0.01 - 10 %		

Note: * Dissolution may not be complete by Aqua Regia
** Aqua Regia soluble sulfide sulfur

Trace Element Geochemistry

TE-3: Trace Elements by Aqua Regia Leach, ICP-OES/ICP-MS (49 elements)

Element	Reporting Limits	Element	Reporting Limits	Element	Reporting Limits
Ag	0.1 - 150 ppm	Hg	0.005 - 1000 ppm	Sc *	0.1 - 1000 ppm
Al *	0.01 - 10 %	In	0.01 - 10000 ppm	Se	0.5 - 1000 ppm
As	0.5 - 1000 ppm	K *	0.01 - 10 %	Sn *	0.1 - 1000 ppm
Ba *	1 - 1000 ppm	La *	1 - 10000 ppm	Sr *	1 - 1000 ppm
Be *	1 - 1000 ppm	Li *	0.1 - 10000 ppm	Ta	0.1 - 1000 ppm
Bi	0.1 - 1000 ppm	Mg *	0.01 - 10 %	Te	0.1 - 1000 ppm
Ca *	0.01 - 25 %	Mn	1 - 10000 ppm	Th *	0.1 - 1000 ppm
Cd	0.1 - 1000 ppm	Mo	0.1 - 1000 ppm	Ti *	0.005 - 1 %
Ce *	1 - 1000 ppm	Na *	0.01 - 10 %	Tl *	0.05 - 1000 ppm
Co	0.1 - 10000 ppm	Nb *	0.1 - 10000 ppm	U *	0.1 - 1000 ppm
Cr *	1 - 10000 ppm	Ni	0.1 - 10000 ppm	V *	2 - 1000 ppm
Cs *	0.1 - 10000 ppm	P *	0.001 - 1 %	W *	10 - 1000 ppm
Cu	0.1 - 10000 ppm	Pb	0.1 - 10000 ppm	Y *	0.1 - 1000 ppm
Fe *	0.01 - 10 %	Rb *	0.1 - 10000 ppm	Zn	1 - 10000 ppm
Ga *	1 - 1000 ppm	Re	5 - 1000 ppb	Zr *	0.1 - 10000 ppm
Ge	0.1 - 10000 ppm	S **	0.05 - 10 %		
Hf *	0.1 - 10000 ppm	Sb	0.05 - 1000 ppm		

Note: * Dissolution may not be complete by Aqua Regia
 ** Aqua Regia soluble sulfide sulfur

TE-4: Trace Elements by Multi Acid Digestion (with HF), ICP-OES (24 elements)

Element	Reporting Limits	Element	Reporting Limits	Element	Reporting Limits
Ag	0.2 - 150 ppm	Cr * †	1 - 10000 ppm	Ni	1 - 10000 ppm
Al *	0.01 - 10 %	Cu	1 - 10000 ppm	P *	0.001 - 1 %
Ba *	10 - 1000 ppm	Fe *	0.01 - 10 %	Pb	2 - 10000 ppm
Be *	1 - 1000 ppm	K	0.01 - 25 %	Sr *	1 - 1000 ppm
Bi	5 - 1000 ppm	Mg *	0.01 - 25 %	Ti *	0.01 - 1 %
Ca *	0.01 - 25 %	Mn	5 - 10000 ppm	V *	1 - 1000 ppm
Cd	1 - 1000 ppm	Mo	2 - 1000 ppm	W *	10 - 1000 ppm
Co	1 - 10000 ppm	Na *	0.01 - 25 %	Zn	2 - 10000 ppm

Note: * Dissolution may not be complete by Aqua Regia or Multi Acid
 † Partial loss (volatilization) by Multi Acid (with HF) dissolution

Trace Element Geochemistry

TE-5: Trace Elements by Multi Acid Digestion (with HF), ICP-OES/ICP-MS (47 elements)

Element	Reporting Limits	Element	Reporting Limits	Element	Reporting Limits
Ag	0.1 - 150 ppm	Hf *	0.1 - 10000 ppm	Sb †	0.1 - 1000 ppm
Al *	0.01 - 10 %	In	0.01 - 10000 ppm	Sc *	0.1 - 1000 ppm
As †	0.5 - 1000 ppm	K *	0.01 - 10 %	Sn *	0.1 - 1000 ppm
Ba *	1 - 1000 ppm	La *	1 - 10000 ppm	Sr *	1 - 1000 ppm
Be *	1 - 1000 ppm	Li *	0.1 - 10000 ppm	Ta	0.1 - 1000 ppm
Bi	0.1 - 1000 ppm	Mg *	0.01 - 10 %	Te †	0.1 - 1000 ppm
Ca *	0.01 - 25 %	Mn	1 - 10000 ppm	Th *	0.1 - 1000 ppm
Cd	0.1 - 1000 ppm	Mo	0.1 - 1000 ppm	Ti *	0.005 - 1 %
Ce *	1 - 1000 ppm	Na *	0.01 - 10 %	Tl *	0.1 - 1000 ppm
Co	0.1 - 10000 ppm	Nb *	0.1 - 10000 ppm	U *	0.1 - 1000 ppm
Cr * †	1 - 1000 ppm	Ni	0.1 - 10000 ppm	V *	2 - 1000 ppm
Cs *	0.1 - 10000 ppm	P *	0.001 - 1 %	W *	10 - 1000 ppm
Cu	0.1 - 10000 ppm	Pb	0.1 - 10000 ppm	Y *	0.1 - 1000 ppm
Fe *	0.01 - 10 %	Rb *	0.1 - 10000 ppm	Zn	1 - 10000 ppm
Ga *	1 - 1000 ppm	Re	5 - 1000 ppb	Zr *	0.1 - 10000 ppm
Ge	0.1 - 10000 ppm	S †	0.05 - 10 %		

Note: * Dissolution may not be complete by Multi Acid (with HF)
 † Partial loss (volatilization) by Multi Acid (with HF) dissolution

TE-7: same as TE-5 (above) with addition of Hg & Se by Aqua Regia, ICP-OES/ICP-MS (49 elements)

Aqua Regia Digestions for the following two elements.

Element	Reporting Limits
Hg	0.005 - 1000 ppm
Se	0.5 - 1000 ppm

TE-7+Au: same as TE-5 (above) with addition of Au by Aqua Regia, ICP-OES/ICP-MS (50 elements)

Au	0.005-100ppm
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Lithochemical (WR)

DETERMINATIONS

PRICE PER
SAMPLE

Whole Rock Analysis

X-Ray Fluorescence (XRF) provides analytical flexibility by detecting major and trace elements. Major elements are analyzed using a lithium borate fusion. This fusion procedure provides complete dissolution of rock-forming elements and their complex matrices. It does not provide quantitative results for precious metals and other native element minerals.

WR-1: Major elements by lithium metaborate/tetraborate fusion

\$80.55

Analyte	Min (%)	Max (%)	Analyte	Min (%)	Max (%)
Na ₂ O	0.01	20.06	Mn ₂ O ₃	0.01	73.26
MgO	0.02	95.36	Fe ₂ O ₃	0.01	100
Al ₂ O ₃	0.05	100	NiO	0.01	6
SiO ₂	0.40	99.8	CuO	0.02	20
P ₂ O ₅	0.01	40.57	ZnO	0.05	10
SO ₃	0.01	56.4	SrO	0.40	20
K ₂ O	0.01	8.96	ZrO ₂	0.01	65
CaO	0.03	98.58	BaO	0.01	40
TiO ₂	0.01	40.92	HfO ₂	0.01	5
V ₂ O ₅	0.10	10	PbO	0.03	8
Cr ₂ O ₃	0.01	18.4			

WR-2: Same as WR-1, plus additional trace elements

\$117.75

Trace Elements are analyzed with XRF as pressed pellets in a wide variety of geological materials. Application examples are rocks, minerals, and soils. Trace elements included: S, Sc, V, Cr, Co, Ni, Cu, Zn, Ga, Ge, As, Se, Rb, Sr, Y, Zr, Nb, Mo, Ag, Sn, Sb, Cs, Ba, La, Hf, Ta, W, Au, Tl, Pb, Bi, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Th, U, and Cl

WR-S	S by Infrared	\$22.30
WR-SO ₄	SO ₄ by Infrared	\$37.20
WR-F	F by Fusion Ion-Selective Electrode (ISE)	\$21.70
WR-CS	C,S by Infrared	\$29.75
WR-SS	Sulfide Sulfur by difference from carbonate leach, by infrared	\$30.95



DETERMINATIONS

PRICE PER
SAMPLE

Selective Leach Extractions (CODE SLE)

SLE-1	Enzyme Leach[®] VI proprietary extraction + ICP-MS **	Call for Custom Quote
SLE-3	TerraSol Leach SM — Proprietary extraction for trace elements bound primarily to limonite	Call for Custom Quote
SLE-5	Water Leach (hot/cold) — Dissolves any water-soluble components and metals released by hydrolysis of silicates	Call for Custom Quote
SLE-6	Water Pre-Wash — Removes water soluble components prior to application of selective leaching	Call for Custom Quote

**** Recent improvements in the Enzyme Leach[®] VI method include a better method of preserving soil samples in the field. If the customer follows this procedure, there is no sample prep charge at the laboratory.**

Enzyme Leach[®] VI Services will take your project from survey design and sample collection to data interpretation and target definition. Our expert staff of geologists and geochemists will design the most appropriate soil geochemistry program for your project. Our years of experience, discovery successes and ongoing research programs combine to make us the leader in selective extraction technologies.

Enzyme Leach[®] VI Services aid in the detection of mineral deposits at depths ranging from a few meters to more than one thousand meters.

- Our proprietary selective extraction techniques were developed over the past 30 years and have been successfully utilized to locate many types of mineral deposits in the subsurface.
- Ore bodies are indicated by a host of elements that are distributed into positive and negative patterns at surface, above and around the edges of mineral deposits.
- Trace elements become trapped at parts-per-billion and parts-per-trillion levels within amorphous oxide coatings on sand and silt grains in the soil or sediment in the near-surface environment.
- Selective leaching of the amorphous MnO₂ within these coatings, and subsequent analysis for up to 68 trace and major elements by ICP-Mass Spectrometry reveals repeatable patterns that indicate blind mineral bodies
- Determining a large number of parameters makes the technology robust.
- **Enzyme Leach[®] VI** is the most effective selective extraction for specifically attacking amorphous MnO₂ and thereby generates the highest background to anomaly contrast



General Terms & Conditions

1. The Schedule of Services and Fees (here in after referred to as 'the price list') is exclusive to samples received by Skyline Assayers & Laboratories through December 31, 2024. All prices are in U.S. dollars. A minimum charge of \$800 will apply to all orders unless a higher minimum charge is noted in the price list, or an existing customized client quote is on file.
2. The price list applies to most geological materials submitted for routine analysis on a non-rush basis. A surcharge may apply for 'rush' services, or non-routine analytical requirements. Client will be informed of the amount of such surcharge prior to Skyline Assayers & Laboratories performing the analytical work. The price list is subject to change without notice. In the event that problems are encountered with the analysis, Skyline Assayers & Laboratories retains the right to impose additional charges resulting from unforeseen expenses or circumstances. Pricing listed applies to ongoing drilling projects. For low volume and/or sporadic work, client will be informed of adjusted pricing.
3. Payment is required upon sample submission unless credit has been previously established with Skyline Assayers & Laboratories. Analysis will not begin without payment unless the client has made credit arrangements in advance of the receipt of samples. Credit terms require payment in full 15 days from the date of the invoice. Interest will be charged on all past due invoices at a rate of 1.5% per month (18% per year). Payment by check, bank draft or direct bank deposits, (EFT), is acceptable.
4. All quotes apply to Skyline Assayers & Laboratories analytical services only. The costs of wire transfer fees, government fees or taxes on the transaction or payment of invoices shall be borne by the client.
5. Reports of analyses of client-submitted samples by Skyline Assayers & Laboratories are intended solely for the use of the client. Skyline Assayers & Laboratories disclaims all implied warranties regarding its reports. By submitting samples, client agrees to indemnify and hold harmless Skyline Assayers & Laboratories, its officers, directors and employees from and against all actions, claims, proceedings or demands (including any costs and expenses in defending or servicing same) arising out of any use made by the client of any report provided to the client by Skyline Assayers & Laboratories.
6. Skyline Assayers & Laboratories is a full-service laboratory and will require that any material sent to the sample preparation department with intent to assay, be processed for assay at Skyline Assayers & Laboratories. Skyline Assayers & Laboratories will not provide outside labs with client's samples unless requested by client for verification purposes.
7. In the event a client requests a test method not inherent to the Skyline Assayers & Laboratories standard testing methodology, including over/detection limits and confidence intervals. The client must provide instructions on initial submittal and in writing, to be approved by Skyline Assayers & Laboratories. Failure to do so can result in incurred costs associated with increased manhours to make up for loss of time and material reimbursement.
8. The client is solely responsible for determining the suitability for any or all services provided by Skyline Assayers & Laboratories. All services provided by Skyline Assayers & Laboratories shall be done in accordance with industry recognized analytical procedures. Skyline Assayers & Laboratories reserves the right to hire appropriately qualified subcontractors for all or part of the testing and analysis requested by client. Skyline Assayers & Laboratories disclaims any warranties that the analysis requested by the client is appropriate for client's intended uses. Skyline Assayers & Laboratories makes no warranties that samples provided by client are in any way a representative sample from which client may extrapolate the results to the larger geological source of the sample. Client is solely responsible for choosing the appropriate tests it wants performed upon any sample. Skyline Assayers & Laboratories is not responsible for suggesting any tests or analyses for any sample provided by the client.
9. The liability of Skyline Assayers & Laboratories to the client is limited to the refund of any service charges paid by the client to Skyline Assayers & Laboratories. Under no circumstances can Skyline Assayers & Laboratories be liable for consequential damages incurred by client, or anyone provided the report of Skyline Assayers & Laboratories by the client. The client hereby releases Skyline Assayers & Laboratories, its officers, directors, and employees from liability arising out of the providing of its testing and analytical services regardless of the cause of the loss, including the negligence of Skyline Assayers & Laboratories and its employees in the handling, testing or analysis of samples.
10. Skyline Assayers & Laboratories will not be liable for the storage or preservation of client's samples. Client must make arrangements for the preservation or storage of samples in advance of any work undertaken by Skyline Assayers & Laboratories, including payment and insurance. Client's results and reports will be retained for a period of 3 (three) years. Client will be charged for storage of pulps and/or rejects after 60 days from reporting date. At client's request, Skyline Assayers & Laboratories can arrange to discard rejects and return pulps, applicable costs will apply.
11. This agreement is governed by the laws of the State of Arizona. If any provision in this agreement is deemed unenforceable for any reason, that shall not cause the remaining terms to be ineffective, but the offending provision will be ignored and the remainder of the provisions of this agreement will be enforced as written. Any action to enforce the terms of this agreement must be brought in the Superior Court for the County of Pima, Arizona. Client agrees to pay the costs and legal fees of Skyline Assayers & Laboratories if it is required to hire counsel to enforce this agreement.
12. Either Party shall be excused from performance and shall not be in default in respect of any obligation hereunder to the extent that the failure to perform such obligation is due to a Force Majeure Event. For the purpose of this Agreement, an "Event of Force Majeure" means any natural or political circumstance not within the reasonable control of the Party affected, but only if and to the extent that such circumstance, despite the exercise of reasonable diligence and the observance of Good Utility Practice, cannot be, or be caused to be, prevented, avoided or removed by such Party, and such circumstance materially and adversely affects the ability of the Party to perform its obligations under this Agreement, and such Party has taken all reasonable precautions, due care and reasonable alternative measures in order to avoid the effect of such event on the Party's ability to perform its obligations under this Agreement and to mitigate the consequences thereof.



**Over 125 years of experience serving the
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