



# ANALYTICAL REQUEST FORM 2024

Are you a new customer?  Yes  No

Do you have a quote?  Yes  No Quote #: \_\_\_\_\_

**Hazen Research, Inc.**

4601 Indiana Street  
Golden, CO 80403  
(303) 279-4501

[analytical@hazenresearch.com](mailto:analytical@hazenresearch.com)  
[www.hazenresearch.com](http://www.hazenresearch.com)

*Please enter reporting information below (required):*

Company Name \_\_\_\_\_  
Contact Name \_\_\_\_\_  
Address \_\_\_\_\_  
Email \_\_\_\_\_  
Phone \_\_\_\_\_

*Please enter billing information below:*  Same info as above?

Billing Name/Dept. \_\_\_\_\_  
Contact Name \_\_\_\_\_  
Address \_\_\_\_\_  
Email \_\_\_\_\_  
Phone \_\_\_\_\_

***This form must accompany samples during shipment***

**PAYMENT INFORMATION**

Purchase Order No. \_\_\_\_\_  
Check No. \_\_\_\_\_  
Amount, \$ \_\_\_\_\_

Payment questions? [ar@hazenresearch.com](mailto:ar@hazenresearch.com)

Visit [www.hazenresearch.com](http://www.hazenresearch.com) for payment  
Select Contact to pay your invoice  
Orders less than \$100.00 require prepayment:  
**DO NOT PUT CREDIT CARD INFORMATION ON FORM**  
For companies outside the U.S., direct bank transfer must be received prior to analysis beginning.

**REPORT COMPLETION INFORMATION**  
(select one)

Standard  15-20 business days\* 100% surcharge for rapid; must be approved **prior** to sample submission  
Rapid  A.S.A.P.  
*\*Turnaround times vary based on a variety of factors and can be as long as 6 weeks*

**SAMPLE SAFETY**  
(check all that apply)

Are any of your samples hazardous?  Yes  No  Unsure  
Did you include a Safety Data Sheet (SDS)?  Yes  No CAS # \_\_\_\_\_

**Possible hazards:**  Warning  Danger  
 Toxic  Corrosive  Explosive  Flammable  Health  Oxidizing  Environmental

**SAMPLE RETURN**  
(select one)

**Samples remain the property of client; we return all samples except water/rad chemical:**

- Pick up sample(s) (If unclaimed, subject to a storage charge)
- Sample return (\$4 per sample – minimum applies)
- SDS included – dispose if possible; you understand the sample will be returned if no options are available (\$4 per sample – minimum applies).

SIGNATURE REQUIRED BELOW – If you do not sign this form, your analysis may be delayed or returned.

**RELINQUISHED AND SIGNED BY:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

By signing above, you agree that services shall be governed by Hazen's Analytical Terms and Conditions on page 3; Hazen's terms and conditions supersede other Terms and Conditions.

**HAZEN INTERNAL ONLY**

Radiation Screen \_\_\_\_\_ c.p.m. SDS  Yes  No Hazards: \_\_\_\_\_

Date/Time Received by: \_\_\_\_\_

LCID: \_\_\_\_\_ Shipping: \_\_\_\_\_ FedEx UPS USPS Other Tracking: \_\_\_\_\_ Hazen ship: \_\_\_\_\_

CUSTOMER NO: \_\_\_\_\_ Comments: \_\_\_\_\_

**ANALYTICAL REQUEST FORM – SAMPLE INFORMATION** (email this document to [analytical@hazenresearch.com](mailto:analytical@hazenresearch.com))

If you have more than 5 samples or other information, please include documentation, information, sample IDs attached to this form with shipment (check box below).						Additional Information	<b>Select instrument:</b> <input type="checkbox"/> ICP-OES <input type="checkbox"/> ICP-MS <input type="checkbox"/> AA
Sample ID	Composition/Matrix	4°C	Phase*	SDS	Exp. Values, Units, etc.	<b>ELEMENTS</b>	
1		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/> Aluminum	<input type="checkbox"/> Nickel
2		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/> Antimony	<input type="checkbox"/> Niobium
3		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/> Arsenic	<input type="checkbox"/> Osmium
4		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/> Barium	<input type="checkbox"/> Palladium
5		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/> Beryllium	<input type="checkbox"/> Phosphorus

I have included additional samples/info on another page.   \*So – Solid L – Liquid SL – Sludge C – Carbon O – Oil U-Unknown  
Solids must be 75 µm (200 mesh) or finer for most analyses; additional charges apply if preparation and/or digestion are required.

MICROANALYSIS	FIRE ASSAY	FUEL and BIOMASS	
<input type="checkbox"/> Carbon <input type="checkbox"/> Hydrogen <input type="checkbox"/> Nitrogen (Dumas) <input type="checkbox"/> Nitrogen (Chemiluminescence) <input type="checkbox"/> Nitrogen (TKN) <input type="checkbox"/> Sulfur (LECO) <input type="checkbox"/> Oxygen <input type="checkbox"/> Basic Nitrogen <input type="checkbox"/> CHN <input type="checkbox"/> CH <input type="checkbox"/> Phosphorus	<input type="checkbox"/> Gold (Gravimetric) <input type="checkbox"/> Gold/Silver (Gravimetric) <input type="checkbox"/> Gold (AA Finish) <input type="checkbox"/> Gold/Silver (AA Finish) <input type="checkbox"/> Gold (Bullion) <input type="checkbox"/> Silver <input type="checkbox"/> Pt/Pd/Rh (ICP Finish) <input type="checkbox"/> Platinum <input type="checkbox"/> Palladium <input type="checkbox"/> Rhodium	<input type="checkbox"/> Ash preparation <input type="checkbox"/> Moisture <input type="checkbox"/> Elemental Analysis of Ash <input type="checkbox"/> BTU <input type="checkbox"/> Carbonate Carbon/Carbon Dioxide <input type="checkbox"/> C <input type="checkbox"/> H <input type="checkbox"/> N <input type="checkbox"/> S (LECO) <input type="checkbox"/> CHN <input type="checkbox"/> Carbonate Carbon / Carbon Dioxide <input type="checkbox"/> Proximate (Volatile% Moisture% Ash% Fixed C) <input type="checkbox"/> Proximate / BTU / S <input type="checkbox"/> Ultimate** (CHN S Moisture% Ash% O) <input type="checkbox"/> Direct O <input type="checkbox"/> Ultimate**/Proximate <input type="checkbox"/> Direct O <input type="checkbox"/> Ultimate**/Proximate/BTU <input type="checkbox"/> Direct O	

WATER ANALYSIS	MINERALOGY	
<input type="checkbox"/> pH/Acidity <input type="checkbox"/> Ammonia <input type="checkbox"/> Alkalinity <input type="checkbox"/> Conductance <input type="checkbox"/> TDS <input type="checkbox"/> UV absorb <input type="checkbox"/> TSS <input type="checkbox"/> Karl Fischer <input type="checkbox"/> TS	<input type="checkbox"/> XRD <input type="checkbox"/> TGA <input type="checkbox"/> QXRD <input type="checkbox"/> XRF (Loose) <input type="checkbox"/> XRF (Whole) <input type="checkbox"/> PSA (Horiba)	<input type="checkbox"/> Fluorine (ISE) <input type="checkbox"/> Volatile Matter <input type="checkbox"/> Chlorine <input type="checkbox"/> Bulk Density <input type="checkbox"/> Screen <input type="checkbox"/> Fusion Temps <input type="checkbox"/> Ox <input type="checkbox"/> Red <input type="checkbox"/> Water Soluble Alkalis

ORGANIC CARBON	ADDITIONAL DETERMINATIONS		
<input type="checkbox"/> TOC <input type="checkbox"/> Trace TOC <input type="checkbox"/> TOC (by difference) <input type="checkbox"/> TOX <input type="checkbox"/> EOX	<input type="checkbox"/> Acid, insoluble <input type="checkbox"/> Hardness <input type="checkbox"/> Ash % <input type="checkbox"/> Chloride (solids) <input type="checkbox"/> Density <input type="checkbox"/> Fluoride (ISE) (solids) <input type="checkbox"/> Blue <input type="checkbox"/> Yellow <input type="checkbox"/> Loss on ignition <input type="checkbox"/> Sulfide <input type="checkbox"/> PSD (Sieve)	<input type="checkbox"/> Sulfur (solids) Phosphorus: <input type="checkbox"/> Blue <input type="checkbox"/> Yellow <input type="checkbox"/> PSD (Sieve)	

ION CHROMATOGRAPHY	PACKAGE SCANS – Add to the scans by selecting elements on the right		
<input type="checkbox"/> Anion Scan F; Cl; Br; NO <sub>3</sub> <sup>-</sup> ; SO <sub>4</sub> <sup>2-</sup> ; PO <sub>4</sub> <sup>3-</sup> <input type="checkbox"/> Fluoride (F <sup>-</sup> ) <input type="checkbox"/> Chloride (Cl <sup>-</sup> ) <input type="checkbox"/> Bromide (Br <sup>-</sup> ) <input type="checkbox"/> Nitrate (NO <sub>3</sub> <sup>-</sup> ) <input type="checkbox"/> Sulfate (SO <sub>4</sub> <sup>2-</sup> ) <input type="checkbox"/> Orthophosphate (PO <sub>4</sub> <sup>3-</sup> )	<input type="checkbox"/> <b>ICP-OES SCAN</b> Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, K, La, Li, Mg, Mo, Mn, Na, Ni, P, Pb, Re, S, Sb, Sr, Te, Th, Ti, V, Y, Zn, Zr <input type="checkbox"/> <b>ICP-OES RARE EARTH SCAN</b> Al, Be, Ca, Ce, Cr, Dy, Er, Eu, Fe, Gd, Hf, Ho, K, La, Lu, Mg, Mn, Na, Nb, Nd, P, Pr, Sc, Si, Sm, Ta, Tb, Th, Ti, Tm, Y, Yb, Zr <input type="checkbox"/> <b>ICP-MS RARE EARTH SCAN</b> Ce, Dy, Er, Eu, Gd, Ho, La, Lu, Nd, Pr, Sm, Tb, Tm, Yb <input type="checkbox"/> <b>ICP-OES/ICP-MS SCAN</b> Ag, Al, As, Au, B, Ba, Be, Bi, Ca Cd, Ce, Co Cr, Cu, Dy, Eu, Fe, Ga, Gd, Ge, Ho, In, Ir, K, La, Li, Lu, Mg, Mn, Mo, Na, Nb, Nd, Ni, P, Pb, Pd, Pr, Pt, Rb, Rh, Ru, S, Sb, Sc, Se, Sm, Sn, Sr, Tb, Th, Ti, Tl, Tm, U, V, Y, Yb, Zn, Zr	<input type="checkbox"/> Iron <input type="checkbox"/> Thulium <input type="checkbox"/> Lanthanum <input type="checkbox"/> Tin <input type="checkbox"/> Lead <input type="checkbox"/> Titanium <input type="checkbox"/> Lithium <input type="checkbox"/> Tungsten <input type="checkbox"/> Lutetium <input type="checkbox"/> Uranium <input type="checkbox"/> Magnesium <input type="checkbox"/> Vanadium <input type="checkbox"/> Manganese <input type="checkbox"/> Ytterbium <input type="checkbox"/> Mercury <input type="checkbox"/> Yttrium <input type="checkbox"/> Molybdenum <input type="checkbox"/> Zinc <input type="checkbox"/> Neodymium <input type="checkbox"/> Zirconium	



**HAZEN RESEARCH**

Didn't find what you were looking for? Tell us more about your desired analysis:

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\*\*Oxygen calculated by difference unless direct Oxygen selected.

Attach additional pages if you need more space for IDs or have more information about your desired analysis. Please include quotes, purchase orders, safety info (SDS), composition/matrix sheets with your submission.

**This is not a complete list. Please inquire for additional analysis or a quote.**

Laboratory provides analytical services for a wide range of clients. Our clients include mining companies, energy producers, water utilities, environmental consulting firms, municipalities, government agencies, and private individuals, to name a few. We also support the process development efforts of corporate Hazen Research, Inc.

The laboratory publishes a general fee schedule which lists prices for routine analytical work that we perform. This fee schedule is available by email or regular mail. Prices listed in the schedule should be considered as "menu" items which can be ordered as line items for specific requirements, using the Analytical Request Form.

If you cannot find a specific needed item on the request form, please contact us. We may be able to provide a job-specific quote for that item.

Analytical services can be purchased using a valid credit card (MasterCard, Visa, MasterCard or Discover), a money order drawn on a U.S. bank, a company purchase order, direct bank transfer, a check, or cash.

#### **TERMS & CONDITIONS**

Submission of this Analytical Request Form by the customer ("you") to Hazen Research, Inc. ("we" or "us") constitutes the customer's offer to engage us to perform the services described on the front of this form. Our performance or commencement of performance of the services constitutes acceptance of your offer, under the following terms and conditions:

You agree to pay us for the services in accordance with our Assaying and Laboratory Services Fee Schedule or any Hazen-generated quote if applicable. Payment is due within 14 days after receipt of our invoice. A service charge of 1.5% per month will be assessed on past due invoices. We reserve the right to withhold data and any other deliverables relating to the services until we have received payment or adequate assurance of payment. If you do not remit payment in a timely manner we may suspend our services until payment is received and/or terminate or cancel this agreement without liability to you.

Our services are governed exclusively by (i) this Analytical Request Form and (ii) the Assaying and Laboratory Services Fee Schedule or our quote, as applicable; which documents together set forth our entire agreement with you regarding the services. Any additional or conflicting terms proposed by you relating to these services are expressly rejected. This Analytical Request Form supersedes and replaces any written requests or purchase orders you submit to us relating to the services.

In the interests of keeping costs down for our customers, we cannot accept the terms and conditions of any customer purchase orders or other written service requests or agreements, as our prices are not structured to cover the costs of reviewing and processing customer forms. Exceptions may in our discretion be made for confidentiality and nondisclosure agreements. Please notify us in advance if you require such agreements.

We warrant that our services will be performed in a professional and workmanlike manner in accordance with industry standards.

This is our exclusive warranty to you. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE DISCLAIMED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE.

If our services do not conform to the requirements of this Analytical Request Form or our quote, or if we otherwise breach our agreement with you, we will in our discretion either (i) re-perform the services at no additional charge, or (ii) refund amounts paid by you for the non-conforming services. This is your sole remedy in the event of any breach by us of our agreement with you.

Under no circumstances will Hazen Research, Inc. be liable for any special, incidental or punitive damages in connection with the services or this agreement.

This agreement is governed by Colorado law, without regard to conflicts of laws principles. Venue for any action arising hereunder shall lie in the state district courts in and for Jefferson County, Colorado, and you expressly consent to the personal jurisdiction of, and venue in, such courts. In the event of any dispute relating to this agreement or the services in which suit is filed or proceedings are commenced in a tribunal of competent jurisdiction, the prevailing party as determined by the court or tribunal shall be entitled to recover its reasonable attorneys' fees and costs.