

Vendor:
ALDRICH CHEMICAL CO.
P O BOX 355
ACCT # 425907
MILWAUKEE, WI 53201

Ship To:

PO. Date: 08/20/96
Via: UPS
FOB: SHIPPING POINT
Terms:NET 30

Attn:MARY 800-558-9160 000315

NRC-02-93-005

Deliver by: 08/30/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	1	EA	2-BUTYNE, 1.4 DIOL 99% (110-65-6) (1KG) B10,320-9		23.20	23.20

REF # 413698
DELIVERY WILL BE 8/30/96

*** CONFIRMING ORDER ***

"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HEREWITH IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."

SE

To be used for:
EBS PROJECT

Deliver to:
D.DUNN X6090/57

Req. no. Buyer:
025034 STEVEN EVANS, C.P.M.

Approved by:

Account no:
20-5708-573

Amount:
23.20

Typist:
05

Vendor:
ALDRICH CHEMICAL CO.
P O BOX 355
ACCT # 425907
MILWAUKEE, WI 53201

Ship To:

PO. Date: 01/03/96
Via: AIRBORNE 2ND DAY
FOB: SHIPPING POINT
Terms:NET 30

Attn:MARY 800-558-9160 000315

Deliver by: 01/05/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	1	EA	27, 062-8 CYCLO HEXANE HPLC GRADE 99.9+% 100ML		15.70	15.70
B	1	EA	41,498-0 SULFUR POWDER 99.99+% 50 G REF. # 808624 DELIVERY WILL BE 1/4/96		22.25	22.25

*** CONFIRMING ORDER ***

SE

To be used for:
IR&D

Deliver to:
DARRELL/57 X6090

Req. no. Buyer:
972941 STEVEN EVANS, C.P.M.

Approved by:

Account no: 20-9874-001
Amount: 37.95

Typist:
05

Vendor:
BERKELEY GEOCHRONOLOGY CENTER
FX: 510 644 9201
2455 RIDGE ROAD
BERKELEY, CA 94709

Ship To:

PO. Date: 09/24/96
Via: SEE BELOW
FOB: SHIPPING POINT
Terms:NET

Attn:5106449200

037826 *AP DIRECT*

NRC-02-93-005

Deliver by: COMPLETE

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	20	EACH	40 AR/39 AR ANALYSIS		1000.00	20,000.00

*** CONFIRMING ORDER ***

VE

To be used for:
VOLCANOLOGY

Deliver to:
*CONNOR/A.LOPEZ/189

Req. no. Buyer:
030515 VERA C. ELIZONDO

Approved by:

Account no: 20-5708-463
Amount: 20,000.00

Typist:
01

Vendor:

CAL-TECH
 DIVISION OF GEOLOGICAL AND
 PLANETARY SCIENCES (170-25)
 (FAX: 818-584-0963)
 PASADENA, CA 91125

Ship To:

PO. Date: 07/15/96
 Via: N/A
 FOB: DESTINATION
 Terms: NET 30

Attn: EARL FREISE

037471 *AP DIRECT*

NRC-02-93-005

Deliver by: 09/30/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	1	JOB	FIRM FIXED PRICE SUBCONTRACT WITH CAL-TECH TO CONDUCT A GEOGRAPHIC POSITIONING SATELLITE (GPS) SURVEY OF SOUTHWESTERN NEVADA AND EASTERN CALIFORNIA. STATEMENT OF WORK AND ESTIMATED COST BREAKDOWN ATTACHED. PERIOD OF PERFORMANCE-JULY 15 THRU SEPTEMBER 30, 1996.		48820.00	48,820.00

A/P: PLEASE ROUTE INVOICES TO VERA ELIZONDO AND ANNA LOPEZ FOR LARRY MCKAGUE'S APPROVAL.

*** CONFIRMING ORDER ***

"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK

To be used for:
 GPS-SURVEY

Deliver to:
 *L.MCKAGUE/A.LOPEZ/189

Req. no. Buyer:
 024838 VERA C. ELIZONDO

Approved by:

Account no: 20-5708-471
 Amount: 48,820.00

Typist:
 01

Vendor:
FISHER SCIENTIFIC
P.O. BOX 1307
ACCT #784214-02
HOUSTON, TEXAS 77001

Ship To:

PO. Date: 11/14/95
Via: YOUR TRUCK
FOB: SWRI
Terms:NET 30

Attn:EMILY 800-926-6060 002585

NRC-02-93-005

Deliver by: 11/20/95

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	1	CASE	A206C-212 65% NITRIC ACID REPLACED BY A206C-4X-212		50.89	50.89

DELIVERY WILL BE 11/16/95

*** CONFIRMING ORDER ***

"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."

SE

To be used for:
EBSER PROJECT

Deliver to:
D.DUNN/B57 X6090

Req. no. Buyer:
978736 STEVEN EVANS, C.P.M.

Approved by:

Account no:
20-5704-084

Amount:
50.89

Typist:
05

Vendor:
 FISHER SCIENTIFIC
 P.O. BOX 1307
 ACCT #784214-02
 HOUSTON, TEXAS 77001

Ship To:

PO. Date: 10/25/95
 Via: YOUR TRUCK
 FOB: SWRI
 Terms:NET 30

Attn:EMILY 800-926-6060 002585

NRC-02-93-005

Deliver by: 11/28/95

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	1	EA	T141-500 TIN (11) CHLORIDE ANHYDROUS		56.20	56.20
B	1	EA	T137-500 TIN (IV) CHLORIDE PENTAHYDRATE		36.32	36.32
C	1	CASE	08-103D 35 ML CRUCIBLE		103.06	103.06

DELIVERY WILL BE 11/21/95

*** CONFIRMING ORDER ***

"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."

SE

To be used for:
 EBSER PROJECT

Deliver to:
 DARRELL DUNN X6090/57

Req. no. Buyer:
 978731 STEVEN EVANS, C.P.M.

Approved by:

Account no:
 20-5704-083

Amount:
 117.35 20-5704-084

Typist:
 78.23 05

Vendor:
 FISHER SCIENTIFIC
 P.O. BOX 1307
 ACCT #784214-02
 HOUSTON, TEXAS 77001

Ship To:

PO. Date: 10/19/95
 Via: FEDERAL EXPRESS P-2
 FOB: SHIPPING POINT
 Terms: NET 30

Attn: EMILY 800-926-6060 002585

NRC-02-93-005

Deliver by: 10/20/95

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	1	CS	HYDROCHLORIC ACID (6/CASE) CATALOG # A144S-212		53.43	53.43
B	1	CS	EPPENDORF TIPS (1000/CS) CATALOG # 21-372		32.68	32.68
C	2	EA	HEAVY DUTY BRUSH CATALOG # 03-541		6.74	13.48
D	2	EA	CONTAINER BRUSH CATALOG # 03-565		3.26	6.52
E	1	CASE	KIMWIP WIPERS (15" X 17") CATALOG # 06-666C		51.66	51.66
F	2	PACK	TERI WIPERS (13.5" X 18") CATALOG # 15-235-60		9.64	19.28
G	1	LB	HYDROFLUORIC ACID CATALOG # A147-1LB		18.05	18.05
H	1	PACK	PYREX BEAKERS, 100 ML CAPACITY CATALOG # 02-540P		25.71	25.71

*** CONFIRMING ORDER ***

To be used for:
 CNWRA LAB

Deliver to:
 J.PRIKRYL/57 X5667

Req. no. Buyer:
 978728 STEVEN EVANS, C.P.M.

Approved by:

Account no:
 20-5704-063
 20-5704-152

Amount:
 195.57
 195.60
 20-5704-073

Typist:
 195.57 05

Vendor:
 FLORIDA INTERNATIONAL UNIVERSITY
 FAX 305-348-4096
 SERB LAB
 UNIVERSITY PARK 33199

Ship To:

PO. Date: 01/23/96
 Via: BEST WAY
 FOB: SHIPPING POINT
 Terms: NET 30

Attn: ORIA 305 3483095

036584 *AP DIRECT*

NRC-02-93-005

Deliver by: 02/15/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	21	E	HG ANALYSIS OF SOIL SAMPLES COLLECTED AT VOLCAN NEGRO NOVEMBER 30 - DECEMBER 3, 1995.		40.00	840.00

*** CONFIRMING ORDER ***

"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."

VVK

To be used for:
 RESEARCH WORK

Deliver to:
 M CONWAY/A. LOPEZ/189

Req. no. Buyer:
 972964 V. KRAUSE

Approved by:

Account no:
 20-5704-143

Amount:
 840.00

Typist:
 10

Vendor:
JM TEST SYSTEMS, INC.
4466 FLORIDA BLVD.
BATON ROUGE, LA 70806

Ship To:

PO. Date: 10/30/95
Via: UPS
FOB: SHIPPING POINT
Terms: NET 30

Attn: 5049252029

032460

Deliver by: 10/30/95

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	1	E	CALIBRATION OF GILMONT FLOWMETER 150 MM S/N; GF-5541-2417		86.00	86.00
B	1	E	CALIBRATION OF GILMONT FLOWMETER 150 MM S/N GF-5541-2517		86.00	86.00
C	1	E	CALIBRATION OF J & W INTELLIGENT FLOWMETER ADM1000 S/N 200-3637		86.00	86.00

ST/NO 266289

*** CONFIRMING ORDER ***

RECEIVING DO NOT INSPECT.

KK

To be used for:
CALIBRATION

Deliver to:
V. MORALES / B 64

Req. no. Buyer:
974696 KAREN KEENER

Approved by:

Account no:
20-0760-000

Amount:
258.00

Typist:
10

Vendor:
 METAL SAMPLES, INC.
 ROUTE 1, BOX 152
 MUNFORD, ALABAMA 36268

Ship To:

PO. Date: 12/29/95
 Via: BEST WAY
 FOB: SHIPPING POINT
 Terms: NET 30

Attn: BEN 205 358 4202 004367

NRC-02-93-005

Deliver by: 01/08/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	10	E	MACHINE 10 NOTCHED SLOW STRAIN RATE SPECIMENS AS PER DRAWING		45.00	450.00

*** CONFIRMING ORDER ***

"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."

JL

To be used for:
 EBSER PROJECT

Deliver to:
 DARRELL DUNN / B 57

Req. no. Buyer:
 978748 JESSE LOZANO

Approved by:

Account no: 20-5704-083
 Amount: 450.00

Typist:
 10

Vendor:
 NEVADA BUREAU OF MINES & GEOLOGY
 PUBLICATION SALES
 (FAX: 702-784-1709)
 MAILSTOP 178/ UNIV. OF NEVADA
 RENO, NV 89557

Ship To:

PO. Date: 05/01/96
 Via: UPS
 FOB: SHIPPING POINT
 Terms: CHECK

Attn: PUBL. 7027844415 037078

NRC-02-93-005

Deliver by: 05/26/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	4	EA	1:24000 MAP: "GEOLOGIC MAP OF THE CRATER FLAT AREA, NEVADA", BY JAMES E. FAULDS, JOHN W. BELL, D.L. FEURBACH AND A.R. RAMELL (1994) MAP 101, PLATE 1		9.00	36.00
			PLEASE USE UPS SHIPPING OR ANY 3 DAY SERVICE			
			PLEASE CALL FOR CURRENT PRICING			
			NOT TO EXCEED \$ 15.00 PER MAP			
B	1	LOT	SHIPPING CHARGES		5.50	5.50
			JUSTIFICATION: MAP WILL BE USED TO SUPPORT ONGOING STUDIED IN VOLCANISM AND STRUCTURAL GEOLOGY IN CRATER FLAT			

*** CONFIRMING ORDER ***

"IF THIS ORDER INCLUDES A GOVERNMENT

To be used for:
 VOLCANISM/STRUCT

Deliver to:
 * (MCKAGUE)

Req. no. Buyer:
 944226 DAVID VASQUEZ

Approved by:

Account no:
 20-5708-461

Amount:
 20.75 20-5708-471

Typist:
 20.75 05

Vendor:
RICE LAKE WEIGHING SYSTEMS
230 WEST COLEMAN ST
RICE LAKE, WI 54868

Ship To:

PO. Date: 10/24/95
Via: FEDERAL EXPRESS P-2
FOB: SHIPPING POINT
Terms:NET 30

Attn:RUSS 8004726703

028750

NRC-02-93-005

Deliver by: 11/24/95

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	1	E	CALIBRATION OF TROEMNER INDIVIDUAL WEIGHT 200G S/N 63813 S/T NO. 271423		95.00	95.00

SWRI RESERVES THE RIGHT TO MONITOR
SELLER'S OPERATION TO THE EXTENT
NECESSARY TO ENSURE THE QUALITY OF THE
ITEM(S) AND/OR SERVICE(S) SPECIFIED BY
THE PURCHASE ORDER.

*** CONFIRMING ORDER ***

CERTIFICATE OF CALIBRATION IN ACCORDANCE
WITH MIL-STD-45662A IS REQUIRED TO
ACCOMPANY EACH ITEM DOCUMENTING TRACE-
ABILITY TO THE NATIONAL INSTITUTE OF
STANDARDS AND TECHNOLOGY (NIST), AS-
FOUND CONDITION, AND ENVIRONMENTAL
CONDITIONS AT THE TIME OF CALIBRATION.

To be used for:
CALIBRATION

Deliver to:
V. MORALES / 64

Req. no. Buyer:
999628 KAREN KEENER

Approved by:

Account no:
20-5704-041

Amount:
95.00

Typist:
10

Vendor:
RICE LAKE WEIGHING SYSTEMS
230 WEST COLEMAN ST
RICE LAKE, WI 54868

Ship To:

**
** PAGE 2
** CONTINUATION
**

PO. Date: 10/24/95
** Via: FEDERAL EXPRESS P-2
** FOB: SHIPPING POINT
**Terms:NET 30
**

Attn:RUSS 8004726703

028750

NRC-02-93-005

Deliver by: 11/24/95

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
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ANY DOCUMENTATION REQUIRED BY THIS ORDER
SHALL BE SHIPPED WITH THE MATERIAL TO:
SOUTHWEST RESEARCH INSTITUTE
6220 CULEBRA ROAD
P. O. DRAWER 28510
SAN ANTONIO, TEXAS 78228-0510
ATTN: INSTITUTE QA RECEIVING
INSPECTION

SELLER SHALL HAVE A MEASURING AND TEST
EQUIPMENT CALIBRATION SYSTEM IN
ACCORDANCE WITH MIL-STD-45662 (REVISION
IN EFFECT ON DATE OF PURCHASE ORDER,
UNLESS OTHERWISE SPECIFIED).

FOR SWRI USE ONLY: CRITICAL PROCUREMENT
SUPPLIER MUST BE LISTED ON THE APPROVED
SUPPLIERS LIST.

THIS ORDER IS TO BE PROCESSED IN
ACCORDANCE WITH YOUR QUALITY SYSTEM
AS AUDITED, REVIEWED, OR DISCUSSED WITH
INSTITUTE QUALITY ASSURANCE. DEVIATION

To be used for:
CALIBRATION

Deliver to:
V. MORALES / 64

Req. no. Buyer:
999628 KAREN KEENER

Approved by:

Account no:

Amount:

Typist:
10

Vendor:
RICE LAKE WEIGHING SYSTEMS
230 WEST COLEMAN ST
RICE LAKE, WI 54868

Ship To:
***** PO. Date: 10/24/95
** Via: FEDERAL EXPRESS P-2
** PAGE 3 ** FOB: SHIPPING POINT
** CONTINUATION ** Terms: NET 30
**

Attn:RUSS 8004726703 028750

NRC-02-93-005

Deliver by: 11/24/95

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
			FROM YOUR QUALITY SYSTEM MUST BE APPROVED IN ADVANCE BY INSTITUTE QA.			
			KK			

To be used for:
CALIBRATION

Deliver to:
V. MORALES / 64

Req. no. Buyer:
999628 KAREN KEENER

Approved by:

Account no: Amount:

Typist:
10

Vendor:

SIGMA CHEMICAL CO.
(FAX: 800-325-5052)
3500 DEKALB ST/PO BOX 14508
ACCT #208580492
ST LOUIS, MO 63118

Ship To:

PO. Date: 08/09/96
Via: FEDERAL EXPRESS P-1
FOB: SHIPPING POINT
Terms:NET 30

Attn:JIM 800-325-3010

006052

NRC-02-93-005

Deliver by: 08/16/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	1	EA	T0632 THIOGLYCOLIC ACID NA SALT 500 G (100 G B/O TILL SEPTEMBER)		79.60	79.60
			REF # 962221597 DELIVERY WILL BE 8/12/96			

*** CONFIRMING ORDER ***

"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."

SE

To be used for:
CONTAINER LIFE

Deliver to:
PETER ANGELL X5797/57

Req. no. Buyer:
978893 STEVEN EVANS, C.P.M.

Approved by:

Account no: 20-5708-563
Amount: 79.60

Typist:
05

Vendor:
TEXAS TECH UNIVERSITY
DEPT. OF GEOSCIENCES
(FAX: 806-742-0100)
P. O. BOX 4109
LUBBOCK, TX 79409

Ship To:

PO. Date: 11/02/95
Via: BEST WAY
FOB: SHIPPING POINT
Terms: NET 30

Attn: MELANIE 806 7422049 034141 *AP DIRECT*

NRC-02-93-005

Deliver by: 12/23/95

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	15	EA/SAMPL	ICP ANALYSIS OF 15 ROCK SAMPLES FROM CINDER CONES PLAVA FLOWS OF THE MESA BUTTE FAULT, SAN FRANCISCO VOLCANIC FIELD, ARIZONA		65.00	975.00

*** CONFIRMING ORDER ***

"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HEREWITH IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."

VVK

To be used for:
TECTRONICS

Deliver to:
M. CONWAY / A. LOPEZ/189

Req. no. Buyer:
972911 V. KRAUSE

Approved by:

Account no: 20-5704-164
Amount: 975.00

Typist:
10

Vendor:
TEXAS TECH UNIVERSITY
DEPT. OF GEOSCIENCES
(FAX: 806-742-0100)
P. O. BOX 4109
LUBBOCK, TX 79409

Ship To:

PO. Date: 10/09/95
Via:
FOB:
Terms:

Attn: MELANIE BARNES

034141 *AP DIRECT*

NRC-02-93-005

Deliver by: COMPLETE

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
			CHANGE ORDER NO. 01 ISSUED TO PO# 36961, TO PAY ADDITIONAL COSTS IN THE AMOUNT OF \$105.00 FOR ADDITIONAL ANALYSIS OF ICP OF MAJOR AND TRACE ELEMENTS. {DUE NET 30} ORDER IS COMPLETE.			
C	1	E	ANALYSIS OF ICP OF MAJOR & TRACE ELEMENTS.		150.00	150.00

*** CONFIRMING ORDER ***

VCE

To be used for:
SAMPLE ANALYSIS

Deliver to:
M. CONWAY/A. LOPEZ/189

Req. no. Buyer:
934721 VERA C. ELIZONDO

Approved by:

Account no: 20-5704-164
Amount: 150.00

Typist:
10

Vendor:
 TEXAS TECH UNIVERSITY
 DEPT. OF GEOSCIENCES
 (FAX: 806-742-0100)
 P. O. BOX 4109
 LUBBOCK, TX 79409

Ship To:

PO. Date: 10/09/95
 Via:
 FOB:
 Terms:

Attn: MELANIE BARNES 034141 *AP DIRECT* NRC-02-93-005 Deliver by: COMPLETE

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
			CHANGE ORDER NO. 02 ISSUED TO PO# 36961, TO DELETE ITEM C AND ADD ITEM D DUE TO INCORRECT UNIT PRICE FOR ITEM C {TYPIST ERROR}.			
C	1-	E	ANALYSIS OF ICP OF MAJOR & TRACE ELEMENTS.		150.00	150.00-
D	1	E	ANALYSIS OF ICP OF MAJOR & TRACE ELEMENTS.		105.00	105.00

ORDER IS COMPLETE.

PAY ADDITIONAL COSTS IN THE AMOUNT OF
 \$105.00 FOR ADDITIONAL ANALYSIS OF
 ICP OF MAJOR AND TRACE ELEMENTS.

*** CONFIRMING ORDER ***

VCE

To be used for:
 SAMPLE ANALYSIS

Deliver to:
 M. CONWAY/A. LOPEZ/189

Reg. no. Buyer:
 934721 VERA C. ELIZONDO

Approved by:

Account no: Amount:
 20-5704-164 45.00-

Typist:
 10

Vendor:
 UNIVERSITY OF MICHIGAN
 DEPARTMENT OF GEOLOGICAL SCIENCES
 (FAX: 313-763-4690)
 2534 C.C. LITTLE BUILDING
 425 E. UNIVERSITY
 ANN ARBOR, MI 48109

Ship To:

PO. Date: 09/11/96
 Via: BEST WAY
 FOB: SHIPPING POINT
 Terms:NET

Attn:DR. HALLIDAYT

037021 *AP DIRECT*

NRC-02-93-005

Deliver by: 09/20/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	5	EACH	40AR/39AR AGE ANALYSIS OF 5 BASALT SAMPLES FROM THE SAN FRANCISCO VOLCANIC FIELD, AZ		866.00	4,330.00

ANALYSIS INCLUDES SAMPLE PREPARATION, FRAGMENT IRRADIATION, AND STEPWISE HEATING.

*** CONFIRMING ORDER ***

"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."

VE

To be used for:
 VOLCANIC RESEARCH

Deliver to:
 M. CONWAY/HILL/LOPEZ/189

Req. no. Buyer:
 130558 VERA C. ELIZONDO

Approved by:

Account no: 20-5708-461
 Amount: 4,330.00

Typist:
 01

Vendor:
UNIVERSITY OF MICHIGAN
DEPARTMENT OF GEOLOGICAL SCIENCES
(FAX: 313-763-4690)
2534 C.C. LITTLE BUILDING
425 E. UNIVERSITY
ANN ARBOR, MI 48109

Ship To:

PO. Date: 09/11/96
Via: BEST WAY
FOB: SHIPPING POINT
Terms:NET

Attn:DR. HALLIDAY 037021 *AP DIRECT* NRC-02-93-005 Deliver by: 09/20/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	1	EACH	40AR/39AR AGE ANALYSIS OF 1 PUMICE SAMPLE FROM CRATER FLAT, NV. ANALYSIS INCLUDES SAMPLE PREPARATION, MINERAL SEPARATION, MINERAL IRRADIATION, AND STEPWISE HEATING.		1150.00	1,150.00

*** CONFIRMING ORDER ***

VE

To be used for:
VOLCANIC RESEARCH

Deliver to:
*BRITT HILL/A.LOPEZ/189

Reg. no. Buyer:
130559 VERA C. ELIZONDO

Approved by:

Account no: Amount:
20-5708-461 1,150.00

Typist:
01

Vendor:

UNIVERSITY OF MICHIGAN
DEPARTMENT OF GEOLOGICAL SCIENCES
(FAX: 313-763-4690)
2534 C.C. LITTLE BUILDING
425 E. UNIVERSITY
ANN ARBOR, MI 48109

Ship To:

PO. Date: 08/13/96
Via: BEST WAY
FOB: SHIPPING POINT
Terms: SEE BELOW

Attn: NORMA 3137641435

037021 *AP DIRECT*

NRC-02-93-005

Deliver by: 09/30/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	2	EACH	40 AR/39 AR AGE ANALYSIS OF 2 BASALT SAMPLES FROM CRATER FLAT, NV *ANALYSIS COMPRISES INITIAL ROCK PREPARATION, IRRADIATION, STEPWISE HEATING, AND MEASUREMENT OF ISOTOPIIC COMPOSITION OF EACH SAMPLE. A/P: ROUTE INVOICE TO J. STAMATAKOS FOR APPROVAL. (ATTN: DR. ALEX HALLIDAY-RADIOGENIC ISOTOPE LAB)		866.00	1,732.00

*** CONFIRMING ORDER ***

VK

To be used for:
TECTONICS RESEARCH

Deliver to:
*J.STAMATAKOS/A.LOPEZ/189

Req. no. Buyer:
130504 V. KRAUSE

Approved by:

Account no: 20-5708-471
Amount: 1,732.00

Typist:
01

Vendor:
UNIVERSITY OF MICHIGAN
DEPARTMENT OF GEOLOGICAL SCIENCES
(FAX: 313-763-4690)
2534 C.C. LITTLE BUILDING
425 E. UNIVERSITY
ANN ARBOR, MI 48109

Ship To:

PO. Date: 07/03/96
Via: SEE BELOW
FOB: SHIPPING POINT
Terms: NET 30

Attn: 313 764 1435

037021 *AP DIRECT*

NRC-02-93-005

Deliver by: COMPLETE

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	1	JOB	USE OF PALEOMAGNETIC LABORATORY AT THE UNIVERSITY OF MICHIGAN ON JUNE 17 THRU JUNE 28 TO MEASURE AND DEMAGENTIZE APPROX. 300 SAMPLES. (2 WKS @ \$2,000/WK) (REF. QUOTE DATED 6-10-96)		4000.00	4,000.00

*** CONFIRMING ORDER ***

"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."

VE

To be used for:
SAMPLE ANALYSIS

Deliver to:
*J. STAMATAKOS/A.LOPEZ/189

Req. no. Buyer:
024839 VERA C. ELIZONDO

Approved by:

Account no: 20-5708-471
Amount: 4,000.00

Typist:
01

Vendor:
THE UNIVERSITY OF MICHIGAN
PROFESSOR ALEX N. HALLIDAY
DEPT. OF GEOLOGICAL SCIENCES
1006 C.C. LITTLE BUILDING
ANN ARBOR, MI 48109

Ship To:

PO. Date: 05/15/96
Via:
FOB:
Terms:

Attn: 035763 *AP DIRECT* NRC-02-93-005 Deliver by: COMPLETE

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
			CHANGE ORDER NO. 01 ISSUED TO PO3 65700, TO TRANSFER FUNDS IN THE AMOUNT OF \$6,020.00 AS FOLLOWS: FROM: 20-5704-164 TO READ: 20-5708-473 AND PAY ENCLOSED INVOICE.			

*** CONFIRMING ORDER ***

VVK

To be used for:
CNWRA

Deliver to:
M. CONWAY/A. LOPEZ/189

Req. no. Buyer:
965168 V. KRAUSE

Approved by:

Account no:
20-5704-164

Amount:
6,020.00- 20-5708-473

Typist:
6,020.00 10

NO:

82496

Vendor:

UNIVERSITY OF MICHIGAN
DEPARTMENT OF GEOLOGICAL SCIENCES
(FAX: 313-763-4690)
2534 C.C. LITTLE BUILDING
425 E. UNIVERSITY
ANN ARBOR, MI 48109

Ship To:

PO. Date: 04/19/96
Via: SEE BELOW
FOB: SHIPPING POINT
Terms: NET 30

Attn: TOM MERLINE

037021 *AP DIRECT*

NRC-02-93-005

Deliver by: 04/26/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	1	JOB	USE OF THE PALEOMAGNETIC LABORATORY AT THE UNIVERSITY OF MICHIGAN ON APRIL 19 THRU APRIL 26 TO MEASURE AND DEMAGNETIZE 150 SAMPLES. SEE ATTACHED LETTER FOR ESTIMATED COST.		2000.00	2,000.00

*** CONFIRMING ORDER ***

"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."

VE

To be used for:
SAMPLE ANALYSIS

Deliver to:
*J. STAMATAKOS/A.LOPEZ/189

Req. no. Buyer:
965199 VERA C. ELIZONDO

Approved by:

Account no: 20-5708-471
Amount: 2,000.00

Typist:
01

Vendor:

THE UNIVERSITY OF MICHIGAN
 PROFESSOR ALEX N. HALLIDAY
 DEPT. OF GEOLOGICAL SCIENCES
 1006 C.C. LITTLE BUILDING
 ANN ARBOR, MI 48109

Ship To:

PO. Date: 11/02/95
 Via: MAIL
 FOB: DESTINATION
 Terms: NET 30

Attn: DR. HALLIDAY

035763 *AP DIRECT*

NRC-02-93-005

Deliver by: 12/22/95

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	7	E/SAMP	40/AR/39/AR DATING OF 7 ROCK SAMPLES FROM CINDER CONE ON THE MESA BUTTE FAULT ZONE OF SAN FRANCISCO VOLCANIC FIELD.		860.00	6,020.00

*ANALYSIS INCLUDES ROCK PREPARATION, IRRADIATION, AND MEASUREMENT OF ISOTOPIC COMPOSITION USING A MASS SPECTROMETER.

7 SAMPLES TOTAL \$6,020.00

*** CONFIRMING ORDER ***

VVK

To be used for:
 TECTONICS

Deliver to:
 M. CONWAY/A. LOPEZ/B 189

Req. no. Buyer:
 965168 V. KRAUSE

Approved by:

Account no: 20-5704-164
 Amount: 6,020.00

Typist:
 10

Vendor:
 UNIVERSITY OF LAS VEGAS
 DEPT. OF BIOLOGICAL SCIENCES
 (FAX: 702-895-3956)
 4505 MARYLAND PARKWAY
 LAS VEGAS, NV 89154

Ship To:

PO. Date: 07/10/96
 Via: BEST WAY
 FOB: SHIPPING POINT
 Terms: NET 30

Attn: PENNY AMY

037432 *AP DIRECT*

NRC-02-93-005

Deliver by: COMPLETE

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	1	E	MIC ISOLATES FROM YM TO BE PROVIDED WITH PHENOTYPIC CHARACTERIZATION AND SAMPLE LOCATION IDENTIFICATION.		175.00	175.00

REFRIGERATE AT 4 DEG. C. IMMEDIATELY ON RECEIPT.

*** CONFIRMING ORDER ***

"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."

VVK

To be used for:
 LAB WORK

Deliver to:
 PETER ANGELL / 57

Req. no. Buyer:
 025016 V. KRAUSE

Approved by:

Account no:
 20-5708-573

Amount:
 175.00

Typist:
 10

Vendor:
 WASHINGTON STATE UNIVERSITY
 GEOLOGY DEPT., PHYSICAL SCIENCES 122
 GEOANALYTICAL LAB
 (FAX: 509-335-7816)
 PULLMAN, WA 99165

Ship To:

PO. Date: 07/01/96
 Via: SEE BELOW
 FOB: SHIPPING POINT
 Terms: NET 30

Attn: CHARLES 5093356742 037384 *AP DIRECT*

NRC-02-93-005

Deliver by: 07/05/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	1	LOT	SERVICE: CHARACTERIZATION OF VOLCANIC ASH LEACHATES THROUGH ICP-MS ANALYSIS. (NOT-TO-EXCEED 10 HRS @ \$80/HR)		800.00	800.00

*** CONFIRMING ORDER ***

"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."

VE

To be used for:
 VOLCANIC ANALYSIS

Deliver to:
 *HILL/A.LOPEZ/189

Req. no. Buyer:
 024983 VERA C. ELIZONDO

Approved by:

Account no:
 20-5708-463

Amount:
 800.00

Typist:
 01

Vendor:
 WASHINGTON UNIVERSITY
 DEPT. EARTH & PLANETARY SCIENCES
 DR. RANDY KORATEV
 CAMPUS BOX 1169
 ONE BOOKINGS DRIVE
 ST. LOUIS, MO 63130

Ship To:

PO. Date: 06/11/96
 Via: BEST WAY
 FOB: SHIPPING POINT
 Terms: NET 30

Attn: DR. RANDY KORATEV 033941 *AP DIRECT*

NRC-02-93-005

Deliver by: 09/01/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	55	EACH	SERVICE: INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF BASALTIC VOLCANIC ROCKS: -INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS (INAA) OF 55 BASALTIC VOLCANIC ROCK POWDERS FROM THE YUCCA MOUNTAIN REGION, FOR THE FOLLOWING CHEMICAL ELEMENTS AND MINIMUM LEVELS OF ANALYTICAL UNCERTAINTY: FE(3%) NA(5%) RB(10%) BA(10%) SR(7%) CS(15%) SC(5%) CO(5%) NI(20%) CR(5%) LA(5%) CE(5%) ND(15%) SM(3%) EU(3%) TB(5%) YB(5%) LU(5%) ZR(15%) HF(5%) TA(5%) TH(5%) U(15%) -INAA OF OTHER ELEMENTS, IF ABUNDANCES ARE ABOVE DETECTION LIMITS FOR ROUTINE ANALYTICAL CONDITIONS (NO PREDETERMINED		120.00	6,600.00

*** CONFIRMING ORDER ***

To be used for:
 VOLCANIC RESEARCH

Deliver to:
 *HILL/A. LOPEZ/189

Req. no. Buyer:
 024973 VERA C. ELIZONDO

Approved by:

Account no:
 20-5708-463

Amount:
 6,800.00

Typist:
 01

Vendor:

WASHINGTON UNIVERSITY
 DEPT. EARTH & PLANETARY SCIENCES
 DR. RANDY KORATEV
 CAMPUS BOX 1169
 ONE BOOKINGS DRIVE
 ST. LOUIS, MO 63130

Ship To:

 ** PO. Date: 06/11/96
 ** Via: BEST WAY
 ** PAGE 2 ** FOB: SHIPPING POINT
 ** CONTINUATION ** Terms:NET 30
 **

Attn:DR. RANDY KOROTEV

033941 *AP DIRECT*

NRC-02-93-005

Deliver by: 09/01/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
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			LEVELS OF UNCERTAINTY): K, CA, AS, SE, BR, SB, W, AND AU.			
B	1	EACH	RUN CHARGE		200.00	200.00

ROUTE INVOICES THROUGH BRITT HILL AND
 VERA ELIZONDO

"IF THIS ORDER INCLUDES A GOVERNMENT
 CONTRACT NUMBER, THEN ANY PROPERTY
 FURNISHED HERewith IS CONSIDERED
 GOVERNMENT-FURNISHED PROPERTY WHICH MUST
 BE ACCOUNTED FOR IN ACCORDANCE WITH FAR,
 PART 45. REFER TO GENERAL PURCHASE
 ORDER TERMS AND CONDITIONS FOR RISK
 OF LOSS."

VE

To be used for:
 VOLCANIC RESEARCH

Deliver to:
 *HILL/A.LOPEZ/189

Req. no. Buyer:
 024973 VERA C. ELIZONDO

Approved by:

Account no:

Amount:

Typist:
 01

Vendor:

WASHINGTON UNIVERSITY
 DEPT. EARTH & PLANETARY SCIENCES
 DR. RANDY KORATEV
 CAMPUS BOX 1169
 ONE BOOKINGS DRIVE
 ST. LOUIS, MO 63130

Ship To:

PO. Date: 06/10/96
 Via: BEST WAY
 FOB: SHIPPING POINT
 Terms: NET 30

Attn: DR. RANDY KORATEV 033941 *AP DIRECT*

NRC-02-93-005

Deliver by: 09/01/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
A	50	EACH	SERVICE: INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF BASALTIC VOLCANIC ROCKS: -INTRUMENTAL NEUTRON ACTIVATION ANALYSIS (INAA) OF 30 BASALTIC VOLCANIC ROCK POWDERS FROM THE TOLBACHIK VOLCANIC SYSTEM, KAMCHATKA, AND 20 BASALTIC VOLCANIC ROCK POWDERS FROM CERRO NEGRO VOLCANO, NICARAGUA, FOR THE FOLLOWING CHEMICAL ELEMENTS AND MINIMUM LEVELS OF ANALYTICAL UNCERTAINTY: FE(3%) NA(5%) RB(10%) BA(10%) SR(7%) CS(15%) SC(5%) CO(5%) NI(20%) CR(5%) LA(5%) CE(5%) ND(15%) SM(3%) EU(3%) TB(5%) YB(5%) LU(5%) ZR(15%) HF(5%) TA(5%) TH(5%) U(15%) -INAA OF OTHER ELEMENTS, IF ABUNDANCES ARE ABOVE DETECTION LIMITS FOR ROUTINE		120.00	6,000.00

*** CONFIRMING ORDER ***

To be used for:
 VOLCANIC RESEARCH

Deliver to:
 *B. HILL/A. LOPEZ/189

Req. no. Buyer:
 024972 VERA C. ELIZONDO

Approved by:

Account no: 20-5708-463
 Amount: 6,200.00

Typist:
 01

Vendor:

WASHINGTON UNIVERSITY
 DEPT. EARTH & PLANETARY SCIENCES
 DR. RANDY KORATEV
 CAMPUS BOX 1169
 ONE BOOKINGS DRIVE
 ST. LOUIS, MO 63130

Ship To:

 ** PO. Date: 06/10/96
 ** Via: BEST WAY
 ** PAGE 2 ** FOB: SHIPPING POINT
 ** CONTINUATION ** Terms: NET 30
 **

Attn: DR. RANDY KOROTEV

033941 *AP DIRECT*

NRC-02-93-005

Deliver by: 09/01/96

Item	Quantity	Unit	Description	Item Identifier	Unit Price	Total Price
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			ANALYTICAL CONDITIONS (NO PREDETERMINED LEVELS OF UNCERTAINTY): K, CA, AS, SE, BR, SB, W, AND AU.			
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B	1	EACH	RUN CHARGE		200.00	200.00
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ROUTE INVOICES THROUGH BRITT HILL AND VERA ELIZONDO

"IF THIS ORDER INCLUDES A GOVERNMENT CONTRACT NUMBER, THEN ANY PROPERTY FURNISHED HERewith IS CONSIDERED GOVERNMENT-FURNISHED PROPERTY WHICH MUST BE ACCOUNTED FOR IN ACCORDANCE WITH FAR, PART 45. REFER TO GENERAL PURCHASE ORDER TERMS AND CONDITIONS FOR RISK OF LOSS."

VE

To be used for:
 VOLCANIC RESEARCH

Deliver to:
 *B. HILL/A. LOPEZ/189

Req. no. Buyer:
 024972 VERA C. ELIZONDO

Approved by:

Account no: Amount:

Typist:
 01