



**OREGON STATE UNIVERSITY
REQUEST FOR QUOTE (RFQ)**

		ISSUE DATE:	April 12, 2012
RFQ #	SF159159	RFQ DUE DATE:	April 23, 2012, 10:00 AM
DELIVER TO:		REQUESTED BY / RETURN QUOTE TO:	
DEPARTMENT:	Facilities Services, EH&S	NAME:	Shannon Fanourakis
ADDRESS:		E-MAIL:	Shannon.Fanourakis@oregonstate.edu
CITY, STATE ZIP:	Corvallis, OR	TELEPHONE:	(541) 737-7349
REQUIRED DELIVERY DATE:		FAX:	(541) 737-2170

Disposal of Radioactive Waste as per attached Spring 2012 Schedule. Quoter must return the attached pricing sheet with cost and Processing Facility information for each Waste Category. OSU reserves the right to split the purchase among qualified vendors.

Applicable Residual Waste must be returned to US Ecology in Richland, WA.

To be considered a Responsive Quote the following must be submitted with quote:

1. A disposal plan for each type of waste, including treatment facility and site of final disposal.
2. Confirmation of appropriate certifications and licenses to transport and/or process material legally.
3. Confirmation that Certificates of Burial/Destruction will be able to be received within 180 days of waste shipment.
4. Pricing Sheet

OSU Radiation Safety personnel must review and approve treatment disposal plans.

Delivery is f.o.b. destination, prepaid and allowed. Shipping, freight and handling must be included in quoted prices. Additional costs for such are disallowed.	TOTAL	
DELIVERY TIME AFTER RECEIPT OF ORDER:		PRICES VALID THROUGH:

SPECIAL INSTRUCTIONS:	VENDOR INFORMATION:	
1. Unless otherwise specified, all items quoted are to be new, unused and not remanufactured in any way. 2. Brand names are for the purpose of describing and establishing the characteristics desired and are not intended to limit or restrict competition. Quoters may submit quotes for substantially equivalent products unless the RFQ provides that a specific brand is necessary because of compatibility requirements, etc. All such brand substitutions shall be subject to approval by OSU. 3. Quoters must clearly identify all products quoted. Brand name and model or number must be shown. 4. Only documents issued as addenda by OSU serve to change the RFQ in any way. 5. OSU reserves the right to make the award by item, partial or whole lots, groups of items or entire quote, whichever is in the best interest of OSU. 6. OSU may reject any Quote not in compliance with the RFQ, attachments, and addenda, or if it is in the best interest of OSU.	COMPANY:	
	ADDRESS:	
	CITY, STATE, ZIP:	
	CONTACT NAME:	
	E-MAIL:	
	TELEPHONE:	
	FAX:	
	VENDOR SIGNATURE:	
	<i>By signature below the undersigned certifies that they are authorized to act on behalf of the quoter and will comply with all aspects of the quote herein.</i>	
	SIGNATURE:	
	NAME/TITLE:	

This procurement is subject to the indicated Oregon State University Standard Terms and Conditions for: Goods Services Purchase Order Construction Software. The indicated terms and conditions may be viewed at <http://pacs.oregonstate.edu/terms-and-conditions>

Oregon State University
Radioactive Waste Shipment - Spring 2012
Request for Quotation (RFQ) #SF159159 Pricing Sheet

Item	Cost	Container #	Waste Category	Description	Preferred Treatment Pathway	Processing Facility
1		AC12-17	Frozen Animal Carcasses	Frozen Non-Deminimus carcasses and about thirty 100ml plastic vials with ml quantities of rat urine in a 55 gal poly drum	Thermal	
2		LD12-01	Long Dry Solid	55 gal drum of DAW	Thermal	
3		LD12-03	Long Dry Solid	55 gal drum of DAW, also contains small check sources less than 100 uCi each	Supercompaction	
4		LD12-04	Long Dry Solid	55 gal drum of DAW	Thermal	
5		LD12-05	Long Dry Solid	55 gal drum of DAW	Thermal	
6		LD12-08	Long Dry Solid	55 gal drum of DAW	Thermal	
7		LD12-10	Long Dry Solid	55 gal drum of DAW - 55/85 gallon overpack - 55 gal drum warped and lid won't fit properly	Thermal	
8		LD12-11	Long Dry Solid	55 gal drum of DAW	Thermal	
9		LD12-12	Long Dry Solid	55 gal drum of DAW	Thermal	
10		Liq12-09	Aqueous Liquid	30/55 gal overpack containing high activity and insoluble isotopes in aqueous liquid	Thermal	
11		MW12-15	Mixed Waste	3 Plastic 2.5 gal carboys of HPLC liquid lab packed in a 55 gal drum	Thermal	
12		MW12-16	Mixed Waste	30 gal drum containing a contaminated lead pig with 4.7 mCi Cs-137 (CsCl)	Metal Melt or Macro-Encapsulation	
13		MW12-18	Mixed Waste	1 Plastic 2.5 gal carboy containing U and Th in 10% HF, 10% HNO ₃ , 10% HCl, and 70% water lab packed in a 30 gal drum	Thermal	
14		MW12-19	Mixed Waste	19 glass jars containing 19 rat carcasses in about 100 ml of 80% ethanol (each) lab packed in a 55 gal drum	Thermal	
15		Res12-14	Dewatered Resin	30 gal drum of dewatered resin	Thermal	
16		SD12-06	Short Lived Solid	55 gal drum of Shortlived DAW	Decay-In Storage	
17		SV12-02	Liquid Scintillation Vials	55 gal drum of biodegradable liquid scintillation vials - Category 1	Thermal	
18		SV12-07	Liquid Scintillation Vials	55 gal drum of hazardous liquid scintillation vials - Category 1	Thermal	
19		SV12-13	Liquid Scintillation Vials	55 gal drum of biodegradable liquid scintillation vials - Category 1	Thermal	

OSU Radioactive Waste Inventory for Shipment

Container	Cont. Desc.	Waste Type	Container Weight (lbs)	Container Volume (ft3)	Survey Background mR/hr	Survey Surface mR/hr	Comments	
<u>AC12-17</u>	55 Gallon Drum	Animal	156	7.5 FT3	.12	.14	Frozen Non-Deminimus carcasses and about thirty 100ml plastic vials with ml quantities of rat urine	
							Disposal Amount	Activity as of 04/03/2012
Total C-14 Activity:							0.53101	0.53073
Total H-3 Activity:							4.24051	3.24504
Total Container Activity:							4.77152	3.77577
<u>LD12-01</u>	55 Gallon Drum	Long Dry/Solid	193	7.5 FT3	.12	.12		
							Disposal Amount	Activity as of 04/03/2012
Total C-14 Activity:							0.01280	0.01280
Total H-3 Activity:							1.14808	1.09462
Total Nat-Th Activity:							0.00530	0.00530
Total Container Activity:							1.16618	1.11271
<u>LD12-03</u>	55 Gallon Drum	Long Dry/Solid	90	7.5 FT3	.12	19.5	Contains RSO small sources and soak survey waste from Rad Van	
							Disposal Amount	Activity as of 04/03/2012
Total Am-241 Activity:							0.00200	0.00200
Total Ba-133 Activity:							0.00200	0.00192
Total C-14 Activity:							1.60250	1.60239
Total Co-60 Activity:							0.00400	0.00367
Total Cs-137 Activity:							0.73400	0.72396
Total H-3 Activity:							0.68642	0.66449
Total Na-22 Activity:							0.00100	0.00084
Total Po-210 Activity:							0.00200	0.00061
Total Ra-226 Activity:							0.14125	0.14121
Total Sr-90 Activity:							0.00213	0.00210
Total Tl-204 Activity:							0.00100	0.00089
Total U-238 Activity:							0.00100	0.00100
Total Container Activity:							3.17930	3.14507

OSU Radioactive Waste Inventory for Shipment

Container	Cont. Desc.	Waste Type	Container Weight (lbs)	Container Volume (ft3)	Survey Background mR/hr	Survey Surface mR/hr	Comments
<u>LD12-04</u>	55 Gallon Drum	Long Dry/Solid	133	7.5 FT3	.12	4.15	

			Disposal Amount	Activity as of 04/03/2012
.....				
Total	C-14 Activity:		0.00277	0.00277
.....				
Total	Co-60 Activity:		0.00556	0.00524
.....				
Total	Dep-U Activity:		0.01000	0.01000
.....				
Total	Eu-152 Activity:		0.00031	0.00030
.....				
Total	H-3 Activity:		0.02800	0.02722
.....				
Total	Mn-54 Activity:		0.00006	0.00004
.....				
Total	Container Activity:		0.04670	0.04557

OSU Radioactive Waste Inventory for Shipment

Container	Cont. Desc.	Waste Type	Container Weight (lbs)	Container Volume (ft3)	Survey Background mR/hr	Survey Surface mR/hr	Comments
<u>LD12-05</u>	55 Gallon Drum	Long Dry/Solid	166	7.5 FT3	.12	2.5	
							Disposal Amount Activity as of 04/03/2012
							Total Ag-110m Activity: 0.00003 0.00002
							Total As-74 Activity: 0.00039 0.00000
							Total Co-58 Activity: 0.00009 0.00002
							Total Co-60 Activity: 0.00736 0.00694
							Total Cr-51 Activity: 0.00089 0.00001
							Total Cs-134 Activity: 0.00001 0.00001
							Total Fe-59 Activity: 0.00068 0.00005
							Total Hf-181 Activity: 0.00008 0.00001
							Total Hg-203 Activity: 0.00015 0.00001
							Total Ir-192 Activity: 0.00140 0.00030
							Total Mn-54 Activity: 0.00076 0.00053
							Total Na-24 Activity: 0.00009 0.00000
							Total Nat-u Activity: 0.00010 0.00010
							Total Np-237 Activity: 0.00010 0.00010
							Total Pu-239 Activity: 0.01370 0.01370
							Total Sb-124 Activity: 0.00018 0.00003
							Total Sc-46 Activity: 0.00030 0.00008
							Total Se-75 Activity: 0.00112 0.00043
							Total Tc-99 Activity: 0.00100 0.00100
							Total U-235 Activity: 0.00036 0.00036
							Total Zn-65 Activity: 0.00882 0.00552
							Total Container Activity: 0.03761 0.02921
<u>LD12-08</u>	55 Gallon Drum	Long Dry/Solid	208	7.5 FT3	.12	.3	
							Disposal Amount Activity as of 04/03/2012
							Total C-14 Activity: 0.01000 0.01000
							Total Dep-U Activity: 0.00001 0.00001
							Total H-3 Activity: 0.02200 0.02155
							Total Container Activity: 0.03201 0.03156

OSU Radioactive Waste Inventory for Shipment

Container	Cont. Desc.	Waste Type	Container Weight (lbs)	Container Volume (ft3)	Survey Background mR/hr	Survey Surface mR/hr	Comments
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<u>LD12-10</u>	85 Gallon Drum	Long Dry/Solid	169	7.5 FT3	.12	6.5	55/85 Overpack - 55 drum warped and lid won't fit
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	Disposal Amount	Activity as of 04/03/2012
Total Ag-110m Activity:	0.00090	0.00081
Total Am-241 Activity:	0.00040	0.00040
Total Am-243 Activity:	0.00010	0.00010
Total As-74 Activity:	0.00060	0.00013
Total Co-57 Activity:	0.00000	0.00000
Total Co-58 Activity:	0.00134	0.00091
Total Co-60 Activity:	0.00675	0.00666
Total Cs-134 Activity:	0.00060	0.00058
Total Cs-137 Activity:	0.16102	0.16053
Total Dep-U Activity:	0.00100	0.00100
Total Eu-152 Activity:	0.00035	0.00035
Total Fe-59 Activity:	0.00050	0.00027
Total Mn-54 Activity:	0.00030	0.00027
Total Np-237 Activity:	0.00010	0.00010
Total Pu-239 Activity:	0.00010	0.00010
Total Pu-242 Activity:	0.00010	0.00010
Total Sb-124 Activity:	0.01185	0.00756
Total Sb-125 Activity:	0.00110	0.00107
Total Sc-46 Activity:	0.00009	0.00006
Total Se-75 Activity:	0.00113	0.00089
Total Th-232 Activity:	0.00010	0.00010
Total U-238 Activity:	0.00050	0.00050
Total Zn-65 Activity:	0.02270	0.02032
Total Container Activity:	0.21163	0.20282

OSU Radioactive Waste Inventory for Shipment

Container	Cont. Desc.	Waste Type	Container Weight (lbs)	Container Volume (ft3)	Survey Background mR/hr	Survey Surface mR/hr	Comments
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<u>LD12-11</u>	55 Gallon Drum	Long Dry/Solid	140	7.5 FT3	.12	1.6	
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			Disposal Amount	Activity as of 04/03/2012
.....				
Total	C-14 Activity:		0.00010	0.00010
.....				
Total	Ca-45 Activity:		0.00555	0.00495
.....				
Total	Cl-36 Activity:		0.01520	0.01520
.....				
Total	Co-60 Activity:		0.00001	0.00001
.....				
Total	Cr-51 Activity:		0.00274	0.00139
.....				
Total	Cs-137 Activity:		0.00050	0.00050
.....				
Total	Fe-55 Activity:		0.45633	0.44775
.....				
Total	Fe-59 Activity:		0.00401	0.00264
.....				
Total	H-3 Activity:		0.00020	0.00020
.....				
Total	Mn-54 Activity:		0.00625	0.00589
.....				
Total	P-32 Activity:		0.00034	0.00009
.....				
Total	Sr-90 Activity:		0.00020	0.00020
.....				
Total	U-238 Activity:		0.00030	0.00030
.....				
Total	Zn-65 Activity:		0.00020	0.00018
.....				
Total Container Activity:			0.49193	0.47939

<u>LD12-12</u>	55 Gallon Drum	Long Dry/Solid	127	7.5 FT3	.12	.32	
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			Disposal Amount	Activity as of 04/03/2012
.....				
Total	Cl-36 Activity:		0.04880	0.04880
.....				
Total Container Activity:			0.04880	0.04880

Container	Cont. Desc.	Waste Type	Container Weight (lbs)	Container Volume (ft3)	Survey Background mR/hr	Survey Surface mR/hr	Comments	
<u>LIQ1209</u>	55 Gallon Drum	Long Lived	400	30 GAL	.12	.5	30/55 overpack containing insoluble and hi activity liquid	
							Disposal Amount	Activity as of 04/03/2012
Total Ag-110m Activity:							0.00003	0.00002
Total C-14 Activity:							2.60000	2.59985
Total Cl-36 Activity:							0.00490	0.00490
Total Co-60 Activity:							0.00007	0.00007
Total Cr-51 Activity:							0.00001	0.00000
Total Cs-137 Activity:							0.00002	0.00002
Total H-3 Activity:							2.20756	2.15196
Total Mn-54 Activity:							0.00002	0.00001
Total Na-24 Activity:							0.00587	0.00000
Total Sb-122 Activity:							0.00006	0.00000
Total Sb-124 Activity:							0.00007	0.00001
Total Sc-46 Activity:							0.00001	0.00000
Total Container Activity:							4.81862	4.75684
<u>MW12-15</u>	55 Gallon Drum	MIXED	126	6.5 GAL	.12	.12	3 Plastic 2.5 gal Carboys overpacked in a 55 Gal Drum	
							Disposal Amount	Activity as of 04/03/2012
Total H-3 Activity:							0.00072	0.00070
Total Container Activity:							0.00072	0.00070
<u>MW12-16</u>	30 GALLON DRUM	MIXED	393	4 FT3	.12	3	Contains a Cs-137 Contaminated Lead Pig	
							Disposal Amount	Activity as of 04/03/2012
Total Cs-137 Activity:							4.77000	4.76639
Total Container Activity:							4.77000	4.76639

OSU Radioactive Waste Inventory for Shipment

Container	Cont. Desc.	Waste Type	Container Weight (lbs)	Container Volume (ft3)	Survey Background mR/hr	Survey Surface mR/hr	Comments	
<u>MW12-18</u>	30 GALLON DRUM	MIXED	120	4 FT3	.12	.12	U and Th in 10% HNO3, 10% HF, 10% HCL, 70% Water	
							Disposal Amount	Activity as of 04/03/2012
Total Th-229 Activity:							0.00001	0.00001
Total Th-232 Activity:							0.00001	0.00001
Total U-236 Activity:							0.00001	0.00001
Total U-238 Activity:							0.00001	0.00001
Total Container Activity:							0.00004	0.00004
<u>MW12-19</u>	55 Gallon Drum	MIXED	158	1 GAL	.12	.12	19 glass jars containing 19 rat carcasses in about 100 ml of 80% ethanol	
							Disposal Amount	Activity as of 04/03/2012
Total C-14 Activity:							1.30000	1.29878
Total Container Activity:							1.30000	1.29878
<u>RES1214</u>	30 GALLON DRUM	RESIN	173	4 FT3	.12	30	Dewatered Resin	
							Disposal Amount	Activity as of 04/03/2012
Total Co-58 Activity:							0.01000	0.00669
Total Co-60 Activity:							0.05000	0.04927
Total Container Activity:							0.06000	0.05596
<u>SD12-06</u>	55 Gallon Drum	Short Dry/Solid	156	7.5 FT3	.12	.12		
							Disposal Amount	Activity as of 04/03/2012
Total I-125 Activity:							0.01500	0.00018
Total P-32 Activity:							9.49000	0.00000
Total P-33 Activity:							0.25100	0.00007
Total S-35 Activity:							0.01000	0.00123
Total Container Activity:							9.76600	0.00148

OSU Radioactive Waste Inventory for Shipment

Container	Cont. Desc.	Waste Type	Container Weight (lbs)	Container Volume (ft3)	Survey Background mR/hr	Survey Surface mR/hr	Comments	
<u>SV12-02</u>	55 Gallon Drum	LSC Vials	272	7.5 FT3	.12	.12	BD Cat 1 Vials	
							Disposal Amount	Activity as of 04/03/2012
Total C-14 Activity:							0.00200	0.00200
Total H-3 Activity:							0.02041	0.01952
Total Container Activity:							0.02241	0.02152
<u>SV12-07</u>	55 Gallon Drum	LSC Vials	247	7.5 FT3	.12	.12	Haz Cat 1	
							Disposal Amount	Activity as of 04/03/2012
Total C-14 Activity:							0.00200	0.00200
Total H-3 Activity:							0.18429	0.17571
Total Container Activity:							0.18629	0.17771
<u>SV12-13</u>	55 Gallon Drum	LSC Vials	317	7.5 FT3	.12	.12	BD Cat 1 Vials	
							Disposal Amount	Activity as of 04/03/2012
Total C-14 Activity:							0.03520	0.03520
Total H-3 Activity:							0.03600	0.03524
Total Container Activity:							0.07120	0.07043