

Re: Vemco Order

From: s.22
To: Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Sent: February 21, 2020 2:38:20 PM PST
Received: February 21, 2020 2:38:36 PM PST
Yes, ^{s.22}

On Fri, Feb 21, 2020 at 2:33 PM Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca> wrote:

Hi ^{s.22} are you free to chat now? What is your number?

Cassandra Silverio

Aquatic Invasive Species Specialist

BC Ministry of Environment and Climate Change Strategy

4th Floor, [525 Superior St. Victoria, BC, V8V 0C5](#)

Cassandra.Silverio@gov.bc.ca

236-478-1418

From: ^{s.22}
Sent: February 21, 2020 2:08 PM
To: Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Subject: Vemco Order

Hi Cass,

Are you able to call me today about the Vemco order?

Cheers,

s.22

RE: Vemco order

From: Beck, Martina ENV:EX <Martina.Beck@gov.bc.ca>
To: Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Sent: February 21, 2020 3:21:22 PM PST
Received: February 21, 2020 3:21:23 PM PST

Awesome thank you!

Martina Beck
Invasive Fauna Unit Head
BC Ministry of Environment and Climate Change Strategy

From: Silverio, Cassandra ENV:EX
Sent: February 21, 2020 3:20 PM
To: Beck, Martina ENV:EX
Subject: RE: Vemco order

Colin will be supplying 4 maybe 5 of the vemco receivers, which is why they are only ordering 4 at \$9,500. We budgeted \$20,000 for 8 receivers.

Original budget for tags was \$9000 for 30 tags. The tags on the quote are ones without temperature loggers (\$385/tag), the price for ones with temperature loggers are \$455/tag.

30 tags without temp loggers = \$11,550

30 tags with temp loggers = \$13,650

Overall we were under budget by \$10,500 on the receivers, and will be over budget by \$4,650 for the tags (if we decide to get the ones with loggers), plus those additional expenses on the quote. Also, s.22 said they need about \$2,500 for materials to build the receiver structures. Original budget was \$29,000 and actual cost will be around \$28,000.

I asked her to get another quote for the tags with loggers. I'll also ask her to add 8 batteries to the quote. She will probably send this next week and then if that sounds good we can order.

Cass

From: Beck, Martina ENV:EX <Martina.Beck@gov.bc.ca>
Sent: February 21, 2020 12:06 PM
To: Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Subject: RE: Vemco order

If I'm reading the email below correctly it looks like the tags are included but they are opting for a more expensive version that has temperature sensors built in.....let me know if you want to chat after you talk to s.22

Martina Beck
Invasive Fauna Unit Head
BC Ministry of Environment and Climate Change Strategy

From: Schwindt, Colin FLNR:EX <Colin.Schwindt@gov.bc.ca>
Sent: February 21, 2020 11:55 AM
To: s.22
Cc: s.22 Beck, Martina ENV:EX <Martina.Beck@gov.bc.ca>; Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Subject: RE: Vemco order

Hi Folks,

I know I've mentioned this before but I'll mention it again. I'm quite concerned that many of these very expensive tags will be removed by anglers. We've been 'promoting' the removal of SMB from the lake and it's been quite successful over the past few years.

I'm not sure exactly how to address this but for starters I would suggest that s.22 develop some materials that I can distribute to anglers about the study, releasing bass, looking for external tags? Etc.

I can get the word out pretty quick but we should be thinking about this sooner rather than later.

I'll also look into removing the "do not release bass" signs we installed a few years ago...

Cheers,
Colin

From: s.22

Sent: February 21, 2020 11:42 AM

To: Schwindt, Colin FLNR:EX <Colin.Schwindt@gov.bc.ca>

Cc: s.22 >; Beck, Martina ENV:EX <Martina.Beck@gov.bc.ca>

Subject: Re: Vemco order

Hi again,

s.22 and I discussed this morning that we think it's important to have temperature sensors on the tags to determine depths and if bass habitat overlaps with salmon and sculpin. Here is the final breakdown:

Product	Unit	Cost per Unit	Total
VR2TX	4	2375	9500
TDG cost	1	25	25
VPS	1	1920	1920
V13 Reference Tag (For VPS System)	1	414	414
V13 with temperature sensors	15	455	6825
V9 with temperature sensors	15	455	6825
Batteries	8	40	320
Shipping cost			195
			26,024

Again, let me know if there are any concerns with this. Martina, I have been dealing with Tristan from Vemco. The number is 905-450-1700 ex 325. Feel free to call me if you need any help with ordering.

Cheers,
s.22

On Fri, Feb 21, 2020 at 8:51 AM Schwindt, Colin FLNR:EX <Colin.Schwindt@gov.bc.ca> wrote:

Hi s.22

I would suggest ordering 8 spare batteries as we will likely need to change them at least once.

Cheers,
Colin

From: s.22

Sent: February 21, 2020 8:39 AM

To:^{s.22}

Cc: Schwindt, Colin FLNR:EX <Colin.Schwindt@gov.bc.ca>; Beck, Martina ENV:EX <Martina.Beck@gov.bc.ca>

Subject: Re: Vemco order

Hi everyone,

I've received the estimate from Vemco. Please have a read through and let me know if you have any questions. If not, Martina we're good to go ahead and order!

Cheers,

s.22

On Thu, Feb 20, 2020 at 12:46 PM^{s.22}

wrote:

Hi Colin,

This is fantastic news; thanks very much for your commitment of the receiver loans, and for arranging a fabricator for the frames. I can't wait to get started on the fieldwork this spring.

Cheers,

s.22

s.22

From: Schwindt, Colin FLNR:EX <Colin.Schwindt@gov.bc.ca>

Sent: Thursday, February 20, 2020 11:25 AM

To:^{s.22}

Cc: Beck, Martina ENV:EX <Martina.Beck@gov.bc.ca>; s.22

Subject: FW: Vemco order

Hi Folks,

As some of you know (^{s.22} and Martina), I was able to find some more money in my telemetry project funds for more receivers that I will "loan" to this project. This will free up some money for this project to purchase more tags and the frames.

The frames I have are far too large for this project so we will have to get smaller frames made for this project, meaning I can't pay for them with my \$\$.

I can commit to supplying the SMB project with 5 receivers (at least four will be VR2Tx)

So for this SMB vemco order I suggest you order the following
30 tags @ \$385 each = \$11,500

4 VR2Tx receivers @ \$2,350 each =	\$9,400
Your VPS service =	\$2,000

For the none vemco stuff	
8 receiver frames @ \$375 =	\$3,000
Gill nets =	\$900

Total =	\$26,800
---------	-----------------

If taxes, US exchange and/or shipping etc. pushes us over the budget from vemco, we can drop a few tags to get us back in the black.

Today I will order more Vemco receivers for my project and hopefully find a fabricator to make the frames.

From: s.22

Sent: February 20, 2020 9:24 AM

To: s.22 ; Schwindt, Colin FLNR:EX <Colin.Schwindt@gov.bc.ca>

Subject: Vemco order

Hi^{s.22} and Colin,

Here is what I think we should order from Vemco (see attached).

Some answers to your questions:

VR2W vs VR2TX

The VR2TX receivers have more functions than the VR2W receivers, but both can be used with the 69-KHZ tags interchangeably. The VR2TX receivers can log temperature and noise and can be used with the VPS system. The VR2W receivers can also be used in the VPS, but you need to buy an additional \$400 sink tag. Therefore, I think we should get 4 VR2TX receivers for VPS and 2 VR2W receivers. Colin will supply the other two VR2W receivers.

V13 vs V9 tags

The V13 tags have longer battery life and more acoustic range. All this depends on what rate we want to set our delays. I told him that we want the tags to last 2 full summers, and he said that wouldn't be an issue for the V9 tags.s.22 and I discussed getting some of each tag, to account for smaller bass. I propose 15 of each (see budget).

We will need to double-check with Martina that the gillnet money can be re-allocated to Vemo tags, but this shouldn't be an issue.

Colin will check his budgets next week to see about structures for the project. We will go ahead and order, leaving \$3000 out in case we need to buy our own structures.

Let me know what you both think about this, then I will send it to Vemco for an official estimate, and try and get these ordered by tomorrow.

Thanks for all your help!

s.22

Vemco Order

From: s.22
To: Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Sent: February 27, 2020 1:42:12 PM PST
Received: February 27, 2020 1:42:18 PM PST

Hi Cass,

I just wanted to check that you got my email about the vemco order and those items have been ordered?

Cheers

s.22

RE: Vemco Quote

From: Beck, Martina ENV:EX <Martina.Beck@gov.bc.ca>
To: Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Cc: Davis, Kerri G ENV:EX <Kerri.Davis@gov.bc.ca>
Sent: March 3, 2020 2:01:34 PM PST
Received: March 3, 2020 2:01:35 PM PST

Perfect sounds good

Martina Beck
Invasive Fauna Unit Head
BC Ministry of Environment and Climate Change Strategy

From: Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Sent: March 3, 2020 1:23 PM
To: Beck, Martina ENV:EX <Martina.Beck@gov.bc.ca>
Cc: Davis, Kerri G ENV:EX <Kerri.Davis@gov.bc.ca>
Subject: RE: Vemco Quote

I just talked to Kerri about this, we will get an invoice from them.

From: Davis, Kerri G ENV:EX <Kerri.Davis@gov.bc.ca>
Sent: March 3, 2020 11:58 AM
To: Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Cc: Beck, Martina ENV:EX <Martina.Beck@gov.bc.ca>
Subject: RE: Vemco Quote

Do you know if there was a Purchase Order set up? If not, they can invoice us! Just checkin!

Kerri

From: Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Sent: February 27, 2020 8:12 AM
To: Davis, Kerri G ENV:EX <Kerri.Davis@gov.bc.ca>
Cc: Beck, Martina ENV:EX <Martina.Beck@gov.bc.ca>
Subject: FW: Vemco Quote

Hi Kerri,

Attached is the Vemco Quote please go ahead with the order, let me know if you have any questions.

Cass

From: s.22
Sent: February 25, 2020 3:19 PM
To: Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Subject: Vemco Quote

Hi Cass,

Here's the final quote for Vemco. I've confirmed it with both Colin and s.22 Let me know if you have any questions!

Cheers,
s.22

Coding for VEMCO invoice and DFO CNF expenses

From: Beck, Martina ENV:EX <Martina.Beck@gov.bc.ca>
To: Cottam, Nick ENV:EX <Nick.Cottam@gov.bc.ca>
Cc: Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Sent: March 5, 2020 3:01:07 PM PST
Received: March 5, 2020 3:01:08 PM PST

Here is the coding for any expenses/invoices for the DFO CNF recoverable funding:

RC: 2963Q
Service line: 30657
Project #: 2913978

Let me know if you need anything else

Martina Beck
Invasive Fauna Unit Head
BC Ministry of Environment and Climate Change Strategy
Office: 778-698-4364
Mobile: 250-208-6520
Email: Martina.Beck@gov.bc.ca | [Report Invasive Species](#)

Re: equipment orders

From: s.22
To: Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Sent: March 27, 2020 4:11:47 PM PDT
Received: March 27, 2020 4:11:58 PM PDT
Attachments: Work Plan 2020 Smallmouth Bass Monitoring and Suppression.docx

Hi Cass,

The GPS should be delivered today - I got an email yesterday saying they were overnighting the package yesterday. I haven't heard anything from Vemco. I just called our contact about the surgery equipment - he said he'd call back in 30 mins so I will let you know when he does.

Also, I've attached a work plan I put together. I wasn't sure if you wanted it in a specific format? If you want me to change anything about it let me know and I'd be happy to.

Cheers,

s.22

On Fri, Mar 27, 2020 at 3:45 PM Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca> wrote:

Hi s.22

Are you able to give me a final price on that ~\$200 for the surgery equipment? Also, have you received the Vemco order and the GPS, if not do you have an estimated date of arrival?

Cass

Work Plan 2020 Smallmouth Bass Monitoring and Suppression Cultus Lake

This work plan is intended to highlight the main activities undertaken by the MSc student, s.22. The FN field technician will be accompanying s.22 during s.22 time at Cultus Lake. The tech will be free to work on additional projects in the weeks when s.22 is not at Cultus Lake. s.22

s.22 For additional information on each task see Table 1.

APRIL

April 13th – 24th

Location: s.22

- Prepare and organization field equipment, field data sheets, etc.
- Program Vemco receivers
- Communicate with field tech about any necessary training
- s.22

April 27th – March 1st

Location: s.22 /Cultus Lake

- Rent truck
- Start field work at Cultus Lake
- Train technician with equipment and survey methods
- Organize equipment at the Cultus Lake Salmon Research Lab
- Coordinate boat and staff schedules for coming weeks

MAY

May 4th – 8th

Location: Cultus Lake

- Preliminary snorkel surveys, determine time and set locations
- Locate nesting sites
- Place receivers throughout lake
- Start communication with local anglers about project logistics

May 11th – 15th

Location: Cultus Lake

- Nest destruction
- Snorkel surveys
- Angling for acoustic tagging

May 18th – 22nd

Location: Cultus Lake

- Nest destruction

Cultus Lake Work Plan 2020

- Snorkel Surveys
- Angling for acoustic tagging
- Spring Public Engagement

May 25th – 29th

Location: s.22

- Develop brochures/posters for engagement
 - s.22
 -
-

JUNE

June 1st – 5th

Location: s.22

- s.22
-

June 8th – 12th

Location: *Cultus Lake*

- Nest destruction
- Snorkel Surveys
- Angling for acoustic tagging (if necessary)
- Check receivers

June 15th – 19th

Location: s.22

- s.22
- Enter snorkel survey and nest destruction data
- s.22

June 22nd – 26th

Location: s.22

- s.22
- Prepare for summer session of community engagement

June 29th – July 3rd

Location: s.22 / *Cultus Lake*

- Depending on timing, attend Cultus Lake events for community engagement
-

JULY

July 6th – July 10th

Location: s.22

- Make partnership and write blogs/new articles about project for different organizations (ISC BC/Pacific Salmon Foundation)
- s.22

Cultus Lake Work Plan 2020

July 13th – 17th

Location: Cultus Lake

- Snorkel Surveys
- Angling for diet analysis and otolith removal
- Check receivers
- Transport stomachs back to ^{s.22} for diet analysis

July 20th – 24th

Location: s.22

- Begin visual diet analysis
- s.22

July 27th – 31st

s.22

AUGUST

August 3rd – 7th

Location: s.22

- Continue diet analysis
- Ship samples for either isotope analysis or DNA testing (funding dependent)

August 10th – 14th

Location: Cultus Lake

- Snorkel Surveys
- Angling for diet analysis and otolith removal (if necessary)
- Check receivers
- Transport stomach back to ^{s.22} for diet analysis

August 17th – 21st

Location: s.22

- s.22
- Continue diet analysis
- s.22

August 24th – 28th

Location: s.22

- Start statistical analysis
 - s.22
-

SEPTEMBER

August 31st – September 4th

Location: s.22

Cultus Lake Work Plan 2020

- Prep for last week at Cultus Lake
- Continue Statistical Analysis

September 7th – 11th

Location: Cultus Lake

- Remove VPS receivers, download data and place them throughout the lake
- Download data from all other receivers
- Snorkel Surveys
- Clean and organize field equipment for transport

Task Break-Down

Table 1. Explanation of tasks performed at Cultus Lake

Task	Duration	Objective	Details
Snorkel Survey	<ul style="list-style-type: none">• 2-3 times per week• 1-2 hours	Population Data	The MSc student and field tech will snorkel 100m transects, counting bass individuals
Nest Destruction	<ul style="list-style-type: none">• 3 times per week• 2 hours	Suppression	The MSc student and field tech will locate spawning sites and physically destroy nests. Each nest will be marked with a bright number and tagged using the GPS unit
Angling for Acoustic Tagging	<ul style="list-style-type: none">• Twice a day, 4 days a week• 2 hours each time	Monitoring Distribution	Angling will take place on the boat, then fish will be brought to shore for tag surgery. See methods for full details.
Public Engagement	<ul style="list-style-type: none">• Half/full day	Engagement	This will be highly variable depending on current events at the lake.
Check Receivers	<ul style="list-style-type: none">• Once• 4 hours	Monitoring Distribution	Using the hydrophones, we can download some of the data from the receivers without retrieving them. We can also use this to check the receivers are functioning properly.
Angling for Diet Analysis	<ul style="list-style-type: none">• Twice a day, 4 days a week• 2 hours each time	Diet Analysis	Fish will be caught and diets immediately preserved for future analysis.
Otolith Removal		Population Data	Otoliths will be removed from the killed diet analysis fish. They will be sent to the lab for aging.

Cultus Lake Work Plan 2020

Please Contact s.22 for further questions.
s.22

RE: FYE Bulletin #20-008 - Important Deadlines for April 3

From: Beck, Martina ENV:EX <Martina.Beck@gov.bc.ca>
To: Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Sent: April 1, 2020 11:22:41 AM PDT
Received: April 1, 2020 11:22:43 AM PDT

Thanks and the Vemco invoice has gone through that is the InnoveSea invoice we went over with Nick yesterday

Martina Beck
Invasive Fauna Unit Head
BC Ministry of Environment and Climate Change Strategy

From: Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Sent: April 1, 2020 11:10 AM
To: Beck, Martina ENV:EX <Martina.Beck@gov.bc.ca>
Cc: Lomas, Emily V ENV:EX <Emily.Lomas@gov.bc.ca>
Subject: RE: FYE Bulletin #20-008 - Important Deadlines for April 3

Hi,

I have no outstanding iexpenses/receipts, below is a summary of the invoices and status as far as I'm aware. I have also attached a photo of the receipt for the wetsuit, does that work?

s.22 Invoice – waiting for invoice

Vemco Invoice – good have been received, invoice was on hold and can now be processed

Steeltec Invoice - payed

Motor Invoice - payed

Fisher Scientific Invoices – payed

Hoskin Invoice for filters - payed

Hoskin Invoice for YSI servicing - payed on Kerri's PC

Amazon orders – payed on Kerri's PC

Cass

From: Beck, Martina ENV:EX <Martina.Beck@gov.bc.ca>
Sent: April 1, 2020 9:53 AM
To: Lomas, Emily V ENV:EX <Emily.Lomas@gov.bc.ca>; Silverio, Cassandra ENV:EX <Cassandra.Silverio@gov.bc.ca>
Subject: FW: FYE Bulletin #20-008 - Important Deadlines for April 3

Hey,

Just wanted to double check that you guys have submitted all your travel in iExpense up to March 31st? The deadline is this Friday

Also just wanted to make sure that there are no additional receipts/invoices that need submitting?

Cass I have submitted the Fischer, Hoskin and receiver frame invoices. Also did you get a copy of the receipt for the wetsuit? I haven't been sent anything via email. I will need that receipt by Monday when I have to submit my purchase card receipts.

Thanks,

Martina Beck
Invasive Fauna Unit Head

From: Coutts, Susan CSNR:EX <Susan.Coutts@gov.bc.ca>
Sent: April 1, 2020 8:03 AM
Subject: FYE Bulletin #20-008 - Important Deadlines for April 3

Hello everyone,

Here is a reminder of the important deadlines for April 3rd.

DEADLINE	ITEM	ACTION
April 3	Accruals	For goods and services received by March 31, email accrual information and support to your Finance mailbox. Details on the accrual process and requirements can be found in the Accruals Bulletin . If not submitted before the deadline, the costs will be charged to your next year. Includes accruals for operating expenditures, contract work, capital expenditures.
April 3	Journal Vouchers (non-accrual)	Send JV details or completed JVs with supporting documentation to your Finance mailbox. Provide coding, expense authority, amount, & reason for the transaction. Includes transfers, corrections, recoveries from other ministries, and accounts receivable.
April 3 at 5:00pm	Travel / iExpenses	iExpense claims for travel completed by March 31 must be entered and approved by April 3. If a travel claim crosses over March and April, send the information to your Finance mailbox after April 14.

For more information, please refer to the [Financial Services - Fiscal Year End Website](#) for a copy of the Instructions and other resources.

Please remember to set up [vacation routing rules](#) when away from the office.

NOTE: If you have any questions about the FYE key dates or process please contact your [FYE ministry HQ Contact](#).

Thanks everyone!

Susan Coutts
FYE Client Communication Coordinator | Client Services Branch
Phone: (778) 698-7012
[Corporate Services for the Natural Resource Ministries](#)



INVOICE

Phone: 902-450-1700 Fax: 902-450-1704

Innovasea
20 Angus Morton Drive
Bedford, Nova Scotia
Canada B4B 0L9

Sales Person	Customer	Date	Currency	Your Ref	Terms	Invoice #
TN	MOE04	03/03/20	CAD	EMAIL	Net 30 Days	029375

INVOICE TO KERRI DAVIS
BC MINISTRY OF ENVIRONMENT
4 - 525 SUPERIOR ST.

VICTORIA, BC
CANADA
V8V 0C5

SHIP TO :
s.22

ATTN: s.22

SHIP VIA FedEx Priority

FOB POINT: Our Plant

ORD	PRODUCT/DESCRIPTION	UNIT PRICE	TOTAL
4	VR2Tx-069k-111-BAT	2375.00	9500.00
1	VSF-PF-VPS-DATA	1920.00	1920.00
1	V13-1x-069k-3	414.00	414.00
5	V9T-2x-069k-1	455.00	2275.00
15	V13T-1x-069k-1	455.00	6825.00
8	BAT 504560	40.00	320.00
10	V9-2x-BLU-1	385.00	3850.00
	DANGEROUS GOODS (LITHIUM BATTERY) HANDLING FEE NORTH AMERICA		25.00

WIRE TRANSFER & DIRECT DEPOSIT INFORMATION:

Bank Info: CIBC, 54 Dellridge Lane, Bedford, NS Canada B4A 0H1

Account Name: InnovaSea Marine Systems Canada Inc.

WIRE: SWIFT#s.21 BRANCH OF ACCOUNT: s.21 ACCOUNT# s.21

DIRECT DEPOSIT: INSTITUTION# s.21 TRANSIT# s.21 ACCOUNT# s.21

(LESS) DISCOUNT	:	0.00
SHIPPING & HANDLING	:	199.00
TAX	:	1266.40
TOTAL	:	26594.40

Remittance Email: accounting.dept@innovasea.com

HST#892153032

THANK YOU

EIN #98-0456934

Page 1 of 1



INVOICE

Phone: 902-450-1700 Fax: 902-450-1704

Innovasea
20 Angus Morton Drive
Bedford, Nova Scotia
Canada B4B 0L9

Sales Person	Customer	Date	Currency	Your Ref	Terms	Invoice #
TN	MOE04	03/05/20	CAD	EMAIL	Net 30 Days	029375

INVOICE TO :
BC MINISTRY OF ENVIRONMENT
4 - 525 SUPERIOR ST.

VICTORIA, BC
CANADA
V8V 0C5

SHIP TO :
s.22

ATTN:s.22

SHIP VIA FedEx Priority

FOB POINT: Our Plant

ORD	PRODUCT/DESCRIPTION	UNIT PRICE	TOTAL
4	VR2Tx-069k-111-BAT	2375.00	9500.00
1	VSF-PF-VPS-DATA	1920.00	1920.00
1	V13-1x-069k-3	414.00	414.00
5	V9T-2x-069k-1	455.00	2275.00
15	V13T-1x-069k-1	455.00	6825.00
8	BAT 504560	40.00	320.00
10	V9-2x-BLU-1	385.00	3850.00
	DANGEROUS GOODS (LITHIUM BATTERY) HANDLING FEE NORTH AMERICA		25.00

WIRE TRANSFER & DIRECT DEPOSIT INFORMATION:

Bank Info: CIBC, 54 Dellridge Lane, Bedford, NS Canada B4A 0H1

Account Name: InnovaSea Marine Systems Canada Inc.

WIRE: SWIFT#s.21 BRANCH OF ACCOUNT: s.21 ACCOUNT#s.21

DIRECT DEPOSIT: INSTITUTION#s.21 TRANSIT#s.21 ACCOUNT#s.21

(LESS) DISCOUNT	:	0.00
SHIPPING & HANDLING	:	199.00
TAX	:	1266.40
TOTAL	:	26594.40

Remittance Email: accounting.dept@innovasea.com

HST#892153032

THANK YOU

EIN #98-0456934

Page 1 of 1



InnovaSea

20 Angus Morton Drive

Bedford, Nova Scotia

Canada B4B 0L9

Tel: (902) 450-1700 x325

Fax: (902) 450-1704

February 25, 2020

Dear ^{s.22}

Thank you for your interest in Vemco equipment. Attached is a quote I have prepared for you to review.

Sincerely yours,

Tristan Norman ext 325
Sales Consultant



QUOTATION

Please reference this number:

QUOTE #: Q-02290

InnovaSea

20 Angus Morton Drive
Bedford, Nova Scotia
Canada B4B 0L9
Tel: (902) 450-1700 x325
Fax: (902) 450-1704

DATE: 25/02/2020

SALESPERSON: *Tristan Norman*

EMAIL: *tristan.norman@innovasea.com*

CUSTOMER: s.22

CONTACT:

QUOTATION TO: s.22	SHIP TO: s.22
------------------------------	-------------------------

Item	DESCRIPTION	QUANTITY ORDERED	UNIT PRICE	UNIT TOTAL
1	VR2Tx-69kHz Coded Acoustic Receiver with Transponder; Tx Pinger Config: User configurable Receiver Battery: D-cell Lithium Metal Tadiran 5930/F VR2Tx IS ONLY WARRANTED AND SUPPORTED FOR USE WITH VEMCO TRANSMITTERS. *REQUIRES BLUETOOTH COMPATIBLE COMPUTER*	4.00	\$2,375.00	\$9,500.00
2	Dangerous Goods (Lithium Battery) Handling Fee North America	1.00	\$25.00	\$25.00
3	VPS Data Processing Fee 4 Rx 12 Months	1.00	\$1,920.00	\$1,920.00
4	V13-1x-A69-1602; External Cap (Reference Tag) Sensors NOT Included Worldwide Unique ID Codes: To be determined 1) On 14 days; Power H; Fixed Delay: 7 seconds 2) On 1427 days; Power H; Random Delay: 540 to 660 seconds Loop back to step 2 Estimated tag life 1441 days AN ADVISORY CONCERNING THE USE OF CLONED TAGS IS ATTACHED. TAGS SHOULD BE DEPLOYED WITHIN 9 MONTHS OF DELIVERY	1.00	\$414.00	\$414.00
5	V13T-1x-A69-9006; Rounded Case (Smallmouth Bass) Temp range -5 ~ 35 C; ID Codes: To be determined 1) On 699 days; Power H; Random Delay: 130 to 230 seconds 2) Off 365 days Loop back to step 2 Estimated tag life 699 days AN ADVISORY CONCERNING THE USE OF CLONED TAGS IS ATTACHED. TAGS SHOULD BE DEPLOYED WITHIN 9 MONTHS OF DELIVERY	15.00	\$455.00	\$6,825.00

Item	DESCRIPTION	QUANTITY ORDERED	UNIT PRICE	UNIT TOTAL
6	V9T-2x-A69-9006; Rounded Case (Smallmouth Bass) Temp range -5 ~ 35 C; ID Codes: To be determined 1) On 323 days; Power H; Random Delay: 130 to 230 seconds Loop back to step 1 Estimated tag life 323 days AN ADVISORY CONCERNING THE USE OF CLONED TAGS IS ATTACHED. TAGS SHOULD BE DEPLOYED WITHIN 6 MONTHS OF DELIVERY	5.00	\$455.00	\$2,275.00
7	V9-2x-A69-1602; Rounded Case (Smallmouth Bass) Sensors NOT Included Worldwide Unique ID Codes: To be determined 1) On 520 days; Power H; Random Delay: 130 to 230 seconds Loop back to step 1 Estimated tag life 520 days AN ADVISORY CONCERNING THE USE OF CLONED TAGS IS ATTACHED. TAGS SHOULD BE DEPLOYED WITHIN 6 MONTHS OF DELIVERY	10.00	\$385.00	\$3,850.00
8	TADIRAN TL-5930/F (D CELL)	8.00	\$40.00	\$320.00
REMARKS: Canadian Business Number: 892153032		DUNS No.: 203748223		Subtotal \$25,129.00 Shipping and Handling \$199.00 Grand Total \$25,328.00 Currency CAD

NOTE: (1) Freight is an estimate only and will be adjusted on the invoice at time of shipping. **Ship Method: FedEx Priority**
(2) Prices do not include any applicable Taxes, Duty, Bank Charges or 3rd party procurement processing fees.
(3) Standard delivery for transmitter and receiver orders is 4 to 6 weeks ARO.
(4) Prices in effect for 30 days after quote date: **26/03/2020**
(5) HST exemption number required if applicable.

**Original
THANK YOU**

**Innovasea Marine Systems Canada Inc.
Statement of Limited Warranty**

Innovasea Marine Systems Canada Inc. provides a one (1) year warranty period for the Product from date of shipment. Innovasea warrants that on the date of shipment all Products manufactured by Innovasea are free from defects in material and workmanship under normal use and service. This warranty applies to the components necessary for equipment upgrades, i.e. the VR1/VR2 to VR2W upgrade. With respect to transmitter products, while Innovasea is able to predict battery life with some certainty, Innovasea cannot guarantee that these Products will remain functional while submerged for extended periods of time. This warranty does not apply to:

- a) any equipment, materials or design supplied by Buyer or a third party.
- b) re-battery services provided by Innovasea.
- c) Products for which Innovasea has not received payment.
- d) problems that result from: external causes such as accident, abuse, misuse; servicing not authorized by Innovasea; usage not in accordance with Product instructions; failure to follow the Product instructions or failure to perform preventative maintenance; usage of accessories, parts or components not supplied by VEMCO.
- e) normal wear and tear and the need for regular maintenance.

This warranty shall survive delivery only on the conditions and subject to the limitations set forth below.

Warranty and Notice Periods

To receive a warranty remedy for a Product, Buyer must contact Innovasea's Customer Support Department during the warranty period to receive the Return Material Authorization ("RMA") instructions. Each defective Product returned for warranty remedy must be shipped at the Buyer's expense according to the RMA instructions and must include reasonable proof that the claimed defect is due to a matter embraced within the warranty set forth above and that such defect did not result from any act or omission of Buyer, including but not limited to any failure to operate and maintain the Product in accordance with Innovasea's applicable written instructions.

Remedy

Innovasea's liability, and the Buyer's exclusive remedy under this warranty, as to a defect in material or workmanship, is limited to the repair of such defect in the accessory, equipment or part in which the defect appears or, at Innovasea's option, to the replacement of such accessory, equipment or part with a similar item free from defect. As to any item repaired by Innovasea or furnished as a replacement by Innovasea, Innovasea's liability and the Buyer's exclusive remedy to the repair or replacement of such item for any further defect in material or workmanship, provided Innovasea receives written notice at Halifax, Nova Scotia, of such further defect from BUYER within ninety (90) days after the repaired or replaced item is shipped to BUYER and provided that BUYER returns same to Innovasea as provided under "Warranty and Notice Periods".

Returned Items

All repairs, replacements and corrections described above shall be performed by Innovasea at its plant at Halifax, Nova Scotia, or at such other place as may be mutually agreeable, and with reasonable care and dispatch in order that the Product, accessory, equipment or part will not be kept out of service longer than necessary. Return to BUYER of a repaired, replacement, or corrected accessory, equipment, part or Product shall be at Innovasea's expense. Title to and risk of loss of the Product, accessory, equipment, or part returned to Innovasea pursuant hereto shall at all times remain with the BUYER, except that title to a returned accessory, equipment, part, or Product shall pass to Innovasea concurrently with shipment to BUYER of any item furnished by Innovasea to BUYER as a replacement therefor. Innovasea shall have only such responsibility for any Product, accessory, equipment, or part owned by the BUYER and in the possession of Innovasea as is chargeable by law to a bailee for hire, but shall not be chargeable for loss of use thereof.

DISCLAIMER AND RELEASE

THE WARRANTIES, OBLIGATIONS AND LIABILITIES OF INNOVASEA AND THE REMEDIES OF BUYER SET FORTH HEREIN ARE EXCLUSIVE AND IN SUBSTITUTION FOR, AND BUYER HEREBY WAIVES AND RENOUNCES, ALL OTHER WARRANTIES AND OBLIGATIONS OF VEMCO AND ANY ASSIGNEE OF INNOVASEA AND ALL RIGHTS, CLAIMS AND REMEDIES OF BUYER AGAINST INNOVASEA, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, WITH RESPECT TO ANY NON-PERFORMANCE OR DEFECT IN THE PRODUCT OR IN ANY OTHER THING DELIVERED UNDER THIS AGREEMENT, INCLUDING BUT NOT LIMITED TO: ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE; ANY IMPLIED WARRANTY ARISING

OUT OF COURSE OF PERFORMANCE, COURSE OF DEALING OR USAGE OF TRADE; ANY OBLIGATION, LIABILITY, CLAIM OR REMEDY IN TORT, WHETHER OR NOT ARISING FROM THE NEGLIGENCE OF INNOVASEA OR ANY ASSIGNEE OF INNOVASEA, ACTUAL OR IMPUTED; ANY OBLIGATION, LIABILITY, RIGHT, CLAIM, OR REMEDY FOR LOSS OF OR DAMAGE TO THE PRODUCT, FOR LOSS OF USE, REVENUE, OR PROFIT WITH RESPECT TO THE PRODUCT; OR FOR ANY OTHER DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES; AND INNOVASEA MAKES NO REPRESENTATION THAT THE PRODUCT WILL NOT INFRINGE ANY PATENT OR OTHER RIGHTS OF ANY PERSON AND BUYER AGREES TO INDEMNIFY INNOVASEA AND HOLD INNOVASEA HARMLESS FROM ANY AND ALL CLAIMS AND LIABILITIES WITH RESPECT TO SAME TOGETHER WITH ANY CLAIMS AND LIABILITIES WITH RESPECT TO ANY INFRINGEMENT OF ANY PATENT OR OTHER RIGHTS OF ANY PERSON ARISING AS A RESULT OF BUYER'S PRODUCTS, TECHNOLOGY, ACTIVITIES, OR OTHERWISE.

Quantity and Delivery

The delivery schedule and quantities to be delivered in the quotation are estimates and subject to change. Innovasea reserves the right to limit the quantity and/or configuration of any Product sold, or prohibit a sale altogether. With respect to data analysis and service, including but not limited to VPS, foreign ID analysis and investigations, ID verification, etc, Innovasea can only deliver service related to information provided/retrieved from Innovasea equipment. Innovasea will use commercially reasonable efforts to meet the delivery schedule, provided however, that Innovasea will not be liable under any circumstances for its failure to meet such delivery date(s). Innovasea will give Buyer reasonable notice that the delivery date and/or quantity to be delivered will change. All shipments are FOB Halifax, Nova Scotia, Canada. Buyer may cancel this order in whole or in part, upon reasonable notice to Innovasea; however, Buyer shall pay Innovasea the Reasonable Cost it has documented as having been incurred in the performance of this order.

Grant of License

Innovasea grants to the Buyer a limited, personal license, with no right to sublicense, to use the Intellectual Property ("IP") and Embedded Software in the manner set out in the Documentation. The Embedded Software and IP are not sold to Buyer. All property rights, including Intellectual Property Rights, remain with Innovasea. All rights related to the IP and/or Embedded Software not expressly licensed to the Buyer are reserved to Innovasea. BUYER shall not permit any person other than BUYER and its employees to use or make use of the Embedded Software and/or IP. BUYER shall not, and shall not permit any third party to, modify, adapt, translate, reverse engineer, decompile, disassemble, or create derivative works based on the Embedded Software and/or IP. This license is assigned to the Product with which you have acquired the Embedded Software and/or IP. If the Product purchased is a Transmitter product, be advised that the license term is equal to the operational life.

Export

Products and associated materials supplied or licensed hereunder may be subject to various export laws and regulations. It is the responsibility of Buyer to comply with all such laws and regulations.

General Conditions

- (a) These terms and conditions shall state the entire agreement between the parties and supersedes all prior communication, oral or written, between the parties relating to this Agreement. No amendment or modification of this Agreement shall be made except by an instrument in writing signed by both parties. If BUYER issues a purchase order or other document purporting to relate to this Agreement, such document shall be considered to be for BUYER's internal use only, and the provisions contained therein shall not amend this Agreement except as may be expressly agreed by Innovasea in writing.
- (b) Invoices not paid when due shall bear interest at the rate of 1% per 30 days of delinquency or fraction thereof, provided that if the amount of such late payment charge exceeds the maximum permitted by law for such charges, such charge shall be reduced to such maximum amount.
- (c) Neither party shall be responsible for delays or failures in performance resulting from acts beyond the control of such party. Such acts shall include, but not be limited to, acts of God, fire, flood, earthquakes, riots, acts of war, epidemics, governmental regulations, direction or request, communication or power line failures, loss of data, strikes or walkouts or any inability to obtain materials, equipment or transportation.

Negotiated Agreement

It is fully understood by the parties that the price of the Product and other mutual agreements of the parties set forth in this agreement were arrived at in consideration of this warranty, SPECIFICALLY INCLUDING THE WAIVER, RELEASE AND RENUNCIATION BY BUYER SET FORTH ABOVE.

**InnovaSea**

20 Angus Morton Drive
Bedford, Nova Scotia
Canada B4B 0L9
Tel: (902) 450-1700 x325
Fax: (902) 450-1704

February 25, 2020

RE: Protecting the Integrity of Our Customers' Research

Thank you for your interest in Vemco products. Established in 1979, Vemco is the sole source and manufacturer of Vemco acoustic telemetry equipment. As the world leader in acoustic telemetry products, we provide acoustic receivers for active and passive tracking, and miniature transmitters designed primarily for implantation in fish for scientists studying the migration and behaviour of marine and freshwater animals.

Honed over 30 years of research and development, the Vemco system is a proprietary system that consists of Vemco transmitters and Vemco receivers working together. Our coded transmitters and monitoring receivers use Vemco proprietary coding techniques that provide unique tag IDs to allow the interoperability of Vemco receiver arrays worldwide. In addition, encryption protecting the Vemco coding scheme is protected under Canadian copyright law as a Technological Protection Measure (TPM) and, as such, no one is permitted to circumvent the encryption or offer a service that is primarily for the purpose of circumventing the encryption. Any attempt to access Vemco's coding scheme (for whatever purpose) is illegal. Vemco reserves all rights and remedies available to protect its intellectual property and the integrity of its system.

Integral to the Vemco system is the proprietary code database containing unique tag IDs that enable researchers to identify individual animals. To protect the integrity of our customers' research data, we carefully manage this database to prevent the possibility of putting duplicate tag IDs in the water and to also ensure that tag parameters are chosen so as to not interfere with neighboring studies. Duplicate IDs would seriously compromise research data thereby jeopardizing study results.

Recently, we have become aware of a number of competing manufacturers who claim to have receivers and/or transmitters that are compatible with Vemco equipment. These manufacturers would have you believe that the Vemco acoustic telemetry system is based upon some form of open standard. It is not. The coding system and technology used by Vemco, was invented by Vemco and is the proprietary intellectual property of Vemco. These manufacturers have not worked with Vemco and are not privy to our technology. Thus their products are not compatible with Vemco products. Furthermore, we cannot comment on the performance of their equipment nor can we be assured that they will not interfere with the correct operation of Vemco equipment.

Of even greater concern to the research community is that the existence of knock-off tags increases the possibility of duplicate tag IDs being deployed thus jeopardizing thousands of existing studies. We consider this practice to be at the very least irresponsible. These manufacturers have copied our older coding systems for which all IDs have been completely used at least once. We are able to recycle some of the IDs through careful management of our ID database but with these knock-off tags the issue is becoming increasingly precarious. Some of these manufacturers claim to have a unique identifier that distinguishes their knock-off tags.

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**InnovaSea**

20 Angus Morton Drive
Bedford, Nova Scotia
Canada B4B 0L9
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This claim is misleading and as the inventors and owners of this technology, we know that the only viable way to distinguish one animal from the next is through the use of unique IDs managed through the ID code database. We encourage researchers to avoid deploying knock-off tags for the sake of their research and that of their colleagues.

To facilitate growing and future studies we developed a new coding technology that is more robust, with stronger encryption and provides for vastly more unique IDs and sensor IDs. Referred to as Global tags, these are now being sold worldwide and can only be detected and decoded by Vemco equipment. This new advanced technology will also guarantee truly unique IDs and further protect the integrity our customers' research.

In addition all support services that we offer, including study advice, data analysis, Vemco Positioning System (VPS) data analysis, false detection analysis, determining foreign ID tag ownership etc., can only be provided to users with datasets generated using the complete Vemco acoustic telemetry system as we are unable to validate nor analyze detection files from other manufacturers' receivers or transmitters.

Finally due to concerns with privacy along with study integrity, Vemco cannot share details on tags with 3rd parties without the permission of the tag owner. This includes information required to complete VPS data analysis. In cases where we are asked to process VPS data for tags not owned by the researcher, we will require that the researcher first get permission from the tag owner.

As always, Vemco is committed to delivering the highest level of customer service and the most advanced equipment through our investment in ongoing research and development. If you have any questions regarding our products, please do not hesitate to contact us.

Sincerely,
Richard Vallee, PhD, MBA
VP Sales, Vemco



InnovaSea
20 Angus Morton Drive
Bedford, Nova Scotia
Canada B4B 0L9
Tel: (902) 450-1700 x325
Fax: (902) 450-1704

Dear Valued Customer:

Your order is in Canadian Currency.

Following are the options offered for payment of your account:

Cheque:

Please make cheque out to: InnovaSea Marine Systems Canada Inc.

Mail to: InnovaSea Marine Systems Canada Inc.
20 Angus Morton Drive
Bedford, NS B4B 0L9

Credit Card:

We accept VISA and MasterCard.

If paying by Credit Card, please consider any daily spending limits which may impede the processing of your transaction. If the Credit Card transaction is declined, Innovasea will request that a new credit card number be provided to complete the transaction.

NOTE: InnovaSea Marine Systems Canada Inc. does not retain Credit Card information on file.

Wire Transfer & Direct Deposit Details:

Please wire/deposit payment to our bank using the following details.

Full amount of invoice is due. **DO NOT DEDUCT BANK FEES** associated with transaction.

Account Name: InnovaSea Marine Systems Canada Inc.

Bank Information: Canadian Imperial Bank of Commerce (CIBC)
54 Dellridge Lane
Bedford, NS Canada B4A 0H1

WIRE: SWIFT #s.21
BRANCH OF ACCOUNT: s.21
ACCOUNT #s.21

DIRECT DEPOSIT: INSTITUTION #s.21
TRANSIT #s.21
ACCOUNT #s.21

Please send email confirmation of payment to: accounting.dept@innovasea.com

NOTE: Canada does not participate in the IBN system.

Our equivalent is a combination of the Transit Number and Bank Code.
Contact us for any clarifications or questions.