

Return-Path: <rick.lumpkin@noaa.gov>
Received: from islay.aoml.noaa.gov (inferno.aoml.noaa.gov.
[192.111.123.247])
by mx.google.com with ESMTPS id
k12sm5647731ang.14.2012.10.16.08.54.20
(version=SSLv3 cipher=OTHER);
Tue, 16 Oct 2012 08:54:20 -0700 (PDT)
Message-ID: <507D832B.1040509@noaa.gov>
Date: Tue, 16 Oct 2012 11:54:19 -0400
From: "Rick.Lumpkin@noaa.gov" <rick.lumpkin@noaa.gov>
Organization: NOAA/AOML
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:10.0.7) Gecko/20120825
Thunderbird/10.0.7
MIME-Version: 1.0
To: erica.rule@noaa.gov
CC: Alan Leonardi <alan.leonardi@noaa.gov>,
Gustavo Goni <Gustavo.Goni@noaa.gov>,
Robert Atlas <robert.atlas@noaa.gov>
Subject: Re: Fwd: drifter question
References:
<CAC-v8GX83EvvWb4weMjPv6Mfg5=_KAb6CTTWfcPoi+LNis80KA@mail.gmail.com>
<CAD3qo3=UWtnDeQVEDFVpVwCPLuCu7egz1DWLHL=i6nbr=RjL4Q@mail.gmail.com>
<CAC-v8GV22tvgeYm3HWPuVqFv_GTPYp8Oh-scVm6eZEpLvT6pmsg@mail.gmail.com>
<CAD3qo3mwa7C0xXsfUvM3aF-s-CcUZEpkFzGxXwL477_VsAYGkg@mail.gmail.com>
<507D7BFD.8080107@noaa.gov>
<CAD3qo3=J4p_hg+bOrUFxWdoHtC48DyWOOJ3ZN4NS-UN9J-tRGA@mail.gmail.com>
In-Reply-To:
<CAD3qo3=J4p_hg+bOrUFxWdoHtC48DyWOOJ3ZN4NS-UN9J-tRGA@mail.gmail.com>
Content-Type: multipart/mixed;
boundary="-----040905010103040106010303"

This is a multi-part message in MIME format.
-----040905010103040106010303
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Hi all,

Here's an updated version of that letter, which incorporates suggestions from Steve Piotrowicz and Candyce Clark. Please discard that prior version.

Best,
Rick

On 10/16/2012 11:49 AM, Erica Rule wrote:

> Hi Alan,
>
> Here is the link to the article on this event and Rick's letter
> describing our role. I would suggest that you include Rick in any
> discussions with NOAA GC since he has all the information.
>

>
> <http://www.guardian.co.uk/environment/2012/oct/15/pacific-iron-fertilization-geoengineering>

>
> Erica

> ----- Forwarded message -----
> From: *Rick.Lumpkin@noaa.gov <mailto:Rick.Lumpkin@noaa.gov>*<rick.lumpkin@noaa.gov <mailto:rick.lumpkin@noaa.gov>>
> Date: Tue, Oct 16, 2012 at 11:23 AM
> Subject: Re: drifter question
> To: erica.rule@noaa.gov <mailto:erica.rule@noaa.gov>

> FYI - I prepared this for Steve Piotrowicz.

>
> Best,
> Rick

> On 10/16/2012 11:17 AM, Erica Rule wrote:

> Bob is traveling this week, so I doubt he was able to reach him
> via phone.

> On Tue, Oct 16, 2012 at 11:14 AM, Lauren Koellermeier
> <lauren.koellermeier@noaa.gov
> <mailto:lauren.koellermeier@noaa.gov>
> <mailto:lauren.koellermeier@noaa.gov
> <mailto:lauren.koellermeier@noaa.gov>>> wrote:

> Thanks Erica,

> I gave the lawyer Dr. Atlas's number yesterday as he was pretty
> anxious to talk to someone but I will pass this along in case
he
> didn't connect.

> Lauren
> -----
> Lauren Koellermeier
> Outreach Coordinator
> NOAA/Pacific Marine Environmental Laboratory
> 7600 Sand Point Way NE, Seattle, WA 98115
> 206-526-6810 <tel:206-526-6810> <tel:206-526-6810
<tel:206-526-6810>>

> <http://www.pmel.noaa.gov/>

> On Tue, Oct 16, 2012 at 8:12 AM, Erica Rule

> <erica.rule@noaa.gov <mailto:erica.rule@noaa.gov>
> <mailto:erica.rule@noaa.gov <mailto:erica.rule@noaa.gov>>> wrote:
>
> Hi Lauren,
>
> Please direct them to Dr. Rick Lumpkin, director of the
Global
> Ocean Drifter Program (and cc'd on this message).
>
> Dr. Rick Lumpkin
> 305-361-4513 <tel:305-361-4513> <tel:305-361-4513
<tel:305-361-4513>>
> Rick.Lumpkin@noaa.gov <mailto:Rick.Lumpkin@noaa.gov>
> <mailto:Rick.Lumpkin@noaa.gov <mailto:Rick.Lumpkin@noaa.gov>>
>
>
> Thanks,
> Erica
>
>
> On Mon, Oct 15, 2012 at 4:30 PM, Lauren Koellermeier
> <lauren.koellermeier@noaa.gov
<mailto:lauren.koellermeier@noaa.gov>
> <mailto:lauren.koellermeier@noaa.gov
> <mailto:lauren.koellermeier@noaa.gov>>> wrote:
>
> Hi Erica,
>
> Who at AOML is in charge of your surface drifters? I
have
> a NOAA lawyer looking to speak to someone regarding a
> recent deployment of surface drifters which
coincidentally
> happened at the same time someone illegal dumped tons
of
> iron into the ocean. I'm fairly certain NOAA has
nothing
> to do with this other than providing the drifters to the
> project.
>
>
> <http://www.guardian.co.uk/environment/2012/oct/15/pacific-iron-fertilisation-geoengineering>
>
> Thanks for your help,
> Lauren
> -----
> Lauren Koellermeier
> Outreach Coordinator
> NOAA/Pacific Marine Environmental Laboratory
> 7600 Sand Point Way NE, Seattle, WA 98115
> 206-526-6810 <tel:206-526-6810> <tel:206-526-6810

<tel:206-526-6810>>

>

>

> <http://www.pmel.noaa.gov/>

>

>

>

>

>

> -- Erica Rule

> Communications and Outreach

> NOAA's Atlantic Oceanographic and Meteorological Laboratory

> 4301 Rickenbacker Cswy., Miami, FL 33149

> www.aoml.noaa.gov <<http://www.aoml.noaa.gov>>

> <<http://www.aoml.noaa.gov>>

> 305-361-4541 <tel:305-361-4541> <tel:305-361-4541

<tel:305-361-4541>>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

>

-----040905010103040106010303

Content-Type: application/msword;

name="Haida corporation.doc"

Content-Transfer-Encoding: base64

Content-Disposition: attachment;

filename="Haida corporation.doc"

0M8R4KGxGuEAAAAAAAAAAAAAAAAAAAAAPgADAP7/CQAGAAAAAAAAAAAAAAAAABAAAAKwAAAA
AA
AAAAEAAALQAAAAEAAAD+////AAAAACoAAAD////////////////////////////////////
//
////////////////////////////////////
//
////////////////////////////////////
//
////////////////////////////////////
//
////////////////////////////////////
//
////////////////////////////////////
//
////////////////////////////////////
//
////////////////////////////////////
//
////////////////////////////////////
//
////////////////////////////////////
//
////////////////////////////////////spcEe8AJBAAA8BK/AAAAAAAAEAAAAACA
AA
BBAAAA4AYmpiakJyQnIAAAAAAAAAAAAAAAAAAAAAAJBBYANBYAACAYAQAQAgGAEABAgAAA
AA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD//w8AAAAAAAAAAD//w8AAAAAAAAAAD//w
8A
AAAAAAAAAAAAAAAAAAAAALcAAAAAAKOGAAAAAAAAAqgYAAAQUAAAAAAAAABBQAAAAAAAEFA
AA
AAAAAAQUAAAAAAAAABBQAABQAAAAAAAAAAAAAAP///8AAAAAGBQAAAAAAAYFAAAAAAAB
gU
AAAAAAAAAGBQAAAwAAAAkFAAADAAAABgUAAAAAAAA/hYAAGYBAAwFAAAKAAAFgUAAAAA
AA
WBQAAAAAABYFAAAAAAAAFgUAAAAAAAMxUAAAAAAAzFQAAAAAADMVAAAAAAAFRYAAA
IA
AAB/FgAAAAAAH8WAAAAAAAAAfYAAAAAAAAAB/FgAAAAAAH8WAAAAAAAAAfYAACQAAABkGA
AA
sgIAABYbaABQAAAAoxYAABUAAAAAAAAAAAAAAAAAAAAABBQAAAAAAAzFQAAAAAA
AA
AAAAAAAAAAAAAAAAAAAAAzFQAAAAAADMVAAAAAAAMxUAAAAAAAzFQAAAAAAKMWAAAAA
AA
AAAAAAAAAAAAAEFAAAAAAAQUAAAAAAAAWBQAAAAAAAFgUAADbAAAAuBYAAB
YA
AAA1FgAAAAAADUWAAAAAANRYAAAAAAAzFQAALgAAAAQUAAAAAAAAWBQAAAAAAAEFA
AA
AAAAAFgUAAAAAAAFRYAAAAAAAAAAAAAAAAAADUWAAAAAAAFRYAAAAAAAAAAAAAAAA
AA
AAAAAAAAAAAAAAAAAAAAAMxUAAAAAAB9FgAAAAAAAFRYAAAAAAAAAAAAAAAA
AA
NRYAAAAAAAAAAAAAAAAAADUWAAAAAAAFRYAAAAAAAAAAAAAAAAAAAAA
AA
AAAAAAAAAAAAAAAAAAAAANRYAAAAAAAFRYAAAAAAAAAAAAAAAAAAAAA
AA
AAAAAP///8AAAAA8BCBFbarzQEAAAAAAAAAP///8AAAAAYRUAABYAAAA1FgAAAAA
AA

AAAAAAAAaRYAABQAAADOfgAAMAAAAP4WAAAAAAAAANRYAAAAAAAAABmGwAAAAAAAhcVAAC+AA
AA
ZhsAAAAAAAA1FgAA
AA
AAAGYbAAAAAAAAAAAAAAAAAAAAEFA
AA
AAAAADUWAAA0AAAAmXUAAAAAAAAzFQAAAAAADUWAAAAAAAAAMXUAAAAAAAAzFQAAAAAAA
AA
AAAMXUAAAAAAAAzFQAAAAAADMVAAAAA
AA
oxYAAAAAAcJfGAAANRYAAA
AA
AAADMVAAAAAAAMXUAAAAAAzFQ
AA
AAAAAP4WAAAAAAAAAMXUAAAAAAzFQAAAAAADMVAAAAAAAMXUAAAAAAAAAAAAAAAAP
//
//8AAAA/////wAAAD/////AAAAAAAAAAAA/////wAAAD/////AAAA//8AAA
AA
/////wAAAD/////AAAA//8AAAA/////wAAAD/////AAAA//8AAAA/////w
AA
AAD/////AAAA//8AAAA/////wAAAD/////AAAAAGYbAAAAAAAMXUAAAAAAzFQ
AA
AAAAADMVAAAAAAAMXUAAAAAAzFQAAAAADMVAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA
AAzFQAAAAADMVAAAAA
AA
MxUAAAAAAcQBGAIAwAAmoSAAA6QAABQASAQAACQQAAAAAAAAAAAAAAAAAAAAA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA1SZTogTk9BQZJzIEdsb2JhbCBECmlmdGVyIFByb2
dy
YW0gZGVwbG95bWVudHMgDQ1JbiBtaWQtSnVseSAyMDEyIE5PQUgScyBhbG9iYWwGRHJpZn
Rl
ciBQcm9ncmFtICHRFApIHdscyBhcHByb2FjaGVkIGJ5IHROZSBiYWlkYSBtYWxtb24gUm
Vz
dG9yYXRpb24gQ29ycG9ydGlvb3B3aXRoIGFuIG9mZmVyaHRvIGRlcGxveSAyMCMbZyXRBz
xp
dGUtdHJyY2t1ZCBkcmlmdGluZyBidW95cyBmb3IgdGhlIEdeUCBpb3B0aGUgTm9ydGggUG
Fj

aWZpYy4gIFRoaxMgcHJvdmlkZWQgdGhlIG9wcG9ydHVuaXR5IHRvIGRlcGxveSBkcmlmdG
lu
ZyBidW95cyB3aXRoIGJhcm9tZXRLcnMgdG8gaWlwcm92ZSB3ZWFOaGVyIGZvcmlvYXN0aW
5n
IGVmZm9ydHMgaW4gYSByZWdpb24gd2hlcmUgZmV3IHN1Y2ggb2JzZXJ2YXRpb25zIGFyZS
Bw
cmVzZW50bHkgYmVpbmcgbWFkZS4gDQ1UaGUgb2NlYW4gdGVtcGVyYXR1cmUsIGN1cnJlbn
Qg
bWVhc3VyZW1lbnRzLCBhbmQgYWlyIHByZXNzdXJlIG1lYXN1cmVtZW50cyBmcm9tIHRoZX
Nl
IGRyaWZ0ZXJzIGFyZSBuZW50c3NhcncgdG8gYmV0dGVyIHVuZGVyc3RhbmQgb3VyIHBSY
5l
dCBhbmQgcHJlZGljdCB3ZWFOaGVyIGFuZCBjbGltYXR1LiBBbGwgcmlvZDw0aW5nIGRhdG
Eg
YXJlIGF2YWlsYWJsZSBmcmVlbHkgYW5kIG9wZW5seSwgaW4gY29uY2VydCB3aXRoIE5PQ
Eg
YW5kIFVTIGdvdmlvbm1lbnQgcG9saWN5LiAgRHVyaW5nIHRoZSBwZXJpb2QgSmFudWFyeS
B0
aHJvdWdoIFN1cHRlbnRzLCBhbmQgcHJlZGljdCB3ZWFOaGVyIGFuZCBjbGltYXR1LiBBbG
wgcmlvZDw0aW5nIGRhdGEg
ZW50IG9mIDg4NSBkcmlmdGVycyB3b3JsZhdZGUsIGZyb20gZG96ZW5zIG9mIHZlc3N1bH
Mu
ICBUaGVzZSAgdm9sdW50YXJ5IGVmZm9ydHMgaW4gYSByZWdpb24gd2hlcmUgZmV3IHN1
Y2ggb2JzZXJ2YXRpb25zIGFyZSBuZW50c3NhcncgdG8gYmV0dGVyIHVuZGVyc3RhbmQ
gb3VyIHBSY5l
dCBhbmQgcHJlZGljdCB3ZWFOaGVyIGFuZCBjbGltYXR1LiBBbGwgcmlvZDw0aW5nIGRhdG
Eg
cGxveW1lbnRzIGNhbiBiZSB2aWV3ZWQgYXQ6DQ0gEYBIWVBFUkxJTksGImh0dHA6Ly93d3
cu
YW9tbC5ub2FhLmdvdi9waG9kL2RhYy9kZXBs31lZC5odG1sIiAUaHR0cDovL3d3dy5hb2
1s
Lm5vYWEuZ292L3Bob2QvZGFjL2RlcGxveWVklmh0bWwVDQ1UaGUgR0RQIHJvdXRpbmVseS
B3
b3JrcyB3aXRoIGRvemVucyBvZiBuYXRpb25hbCBhbmQgaW50ZXJ2YXRpb25hbCBwYXJ0bm
Vy
cyB0byBtYWIudGFpbiBhIGdsb2JhbCBhcnJheSBvZiBzYXR1bGxpdGUtdHJhY2t1ZCBkcm
lm
dGVycyBhdCBhIHJlc29sdXRpb24gb2YgYXBwcm94aW1hdGVseSA1sHg1sCwgdxNpbmcgbW
Vy
Y2hhbnQgYW5kIHJlc2VhcmNoIHN0aXAgcm9ldGVzIHRoYXQgZW5jb3VyYWdlIGV2ZW4gZG
lz
dHJpYnV0aW9uLiBBIGxpc3Qgb2Ygc29tZSBvZiBvdXJlcGFydG51cnMsIGFzIHdlbGwgYX
Mg
bW9yZSBpbmZvcmlhdGlvbiBhYm91dCB0aGUgcHJvZ3JhbSwgY2FuIGJlIGZvdW5kIGF0IA
0N
EyBIWVBFUkxJTksGImh0dHA6Ly93d3cuYW9tbC5ub2FhLmdvdi9waG9kL2RhYy9nZHBfb2
Jq
ZWN0aXZlcY5waHAiIBRodHRwOi8vd3d3LmFvbWwubm9hYS5nb3YvcGhvZC9kYWMvZ2RwX2
9i
amVjdG12ZXMuGhwFSANDVROZSBHRFAgZG91cyBub3QgcmlvZDw1ZSBmdW5kaW5nIHRvIG
No
YXJ0ZXIgc2hpcCB0aW1lIGZvciB0aGVzZSBkZXBs31tZW50cywgYnV0IG11c3QgaW5zdG
Vh

ZCByZWx5IG9uIHZvbHVudGV1cnMgd2hvIG9mZmVyIHRvIGRlcGxveSB0aGUgaW5zdHJ1bWVu
dHMgZm9yIHVzLiBUaHVzLCB3aGVuIHdlIHd1cmUgYXBwcm9hY2hlZCBieSB0aGUgSGFpZG
Eg
Q29ycG9yYXRpb24gd2Ugd2VyZSBwbGVhc2VkIHRvIHRha2UgYWR2YW50YWdlIG9mIHRoaX
Mg
b3Bwb3J0dW5pdHkuICB0byBpbmZvcmlhdGlvbiB3YXMgcHJvdmlkZWQgdG8gdGhlIEEdEUC
Bh
c3NvY21hdGluZyB0aG1zIG9mZmVyIHdpdGggdGhlIGRpc2NoYXJnZSBvZiBtYXRlcmlhbc
Bp
biB0aG1zIHJlZ21vbjsGaXQgd2FzIG5vdCB1bnRpbCAxNSBPY3RvYmVyIHRoYXQgd2UgbG
Vh
cm51ZCBvZiB0aGUgcG90ZW50aWFsIGFzc29jaWF0aW9uIG9mIHRoZXRnIGRlcGxveW11bn
Rz
IHdpdGggdGhpcyBkaXNjaGFyZ2UuDQAA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AAACAAAQgAAD
EI
AABCCAAA/AgAAP8IAAACQAAMwkaAK8JAACxCAAxgkaAMcJAADcCQAA3QkaAMEKAADCCg
AA
wwoAABoLAAAAbCwAASwsAALALAADUCwAA1QsAABIMAAATDAAAQgWAAEMMAABFDAAA7gWAAO
8M
AAAtdQAATQ0AAJwNAACdDQAA3w0AAOANAAAUDgAAFQ4AALUOAAC8DgAAIQ8AACIPAA
CPDw
AA
AxAAAAQAAD88ebx3ubx5vHm1ubW5svmy9bL1su8y7yvvoBxpPGc8Y3xjYCN8cvx1svWdQ
AA
AAAAAAAAAAAAUFWj1F+AAFmi3JwkaQ0ocAGFKHAAAGBVo5RfgABZoUifcADBKEABDShwAYU
oc
AAAdA2oAAAAFWj1F+AAFmhSJ9waQ0ocAFUIAWFKHAAOfmiBR8YAQ0ocAGFKHAAAFBVo5R
fg
ABZogUfGAENKHABhShwAABgVaOUX4AAWAOUX4AAwShAAQ0ocAGFKHAAAHQnqAAAAABV
o5R
fg
ABZo5RfgAENKHABVCAfHShwAFBVo5RfgABZo5RfgAENKHABhShwAAA4WaKMU1wBD
ShwAYU
oc
AAAOFmj1F+AAQ0ocAGFKHAAAFBVo5RfgABZofiUZAENKHABhShwAABQVaOUX4AAWA
FIn3A
BD

NgYAADYGAABoAQAASAEAADYGAAA2BgAANgYAADYGAAA2BgAANgYAADYGAAA2BgAANgYAAD
YG
AAA2BgAANgYAADYGAAA2BgAANgYAADYGAAA2BgAANgYAADYGAAA2BgAANgYAADYGAAA2Bg
AA
NgYAADYGAAA2BgAANgYAADYGAAA2BgAANgYAADYGAAA2BgAANgYAADYGAAA2BgAANgYAAD
YG
AAA2BgAANgYAADYGAAA2BgAANgYAADYGAAA2BgAANgYAADYGAAA2BgAANgYAADYGAAA2Bg
AA
NgYAADYGAAA2BgAANgYAADYGAAA2BgAANgYAADYGAAA2BgAANgYAADYGAAA2BgAANgYAAD
YG
AAA2BgAAAsAMAADYGAAAYBgAAGAAAAMADAADQAwAA4AMAAPADAAAABAAAEQAACAEAAAwBA
AA
QAQAAFAEAABgBAAAcQAAlAEAAACQBAAAwAMAANADAADgAwAA8AMAAAAEAAAQBAAAMgYAAC
gC
AADYAQAA6AEAAACAEAAAwBAAAQAQAAFAEAABgBAAAcQAAlAEAAACQBAAAwAMAANADAADgAw
AA
8AMAAAAEAAAQBAAAlAQAAADAEABABAAAUQAAGAEAAwBAAAgAQAAJAEADAawAA0AMAAO
AD
AADwAwAAAAQAABAEAAAgBAAAMAQAEEAEAAABQBAAAYAQAAHAEAAACABAAAKQAAMADAADQAw
AA
4AMAAPADAAAABAAAEQAACAEAAAwBAAAQAQAAFAEAABgBAAAcQAAlAEAAACQBAAAwAMAAN
AD
AADgAwAA8AMAAAAEAAAQBAAAlAQAAADAEABABAAAUQAAGAEAAwBAAAgAQAAJAEADAaw
AA
0AMAAODAADwAwAAAAQAABAEAAAgBAAAMAQAEEAEAAABQBAAAYAQAAHAEAAACABAAAKQAAD
gB
AABYAQAA+AEAAAgCAAAYAgAAVgIAAH4CAAAYAAAAUEoDAF9IAQRtSAkEbkGJBHNICQR0SA
kE
AAAAAEAAAGDx/wIAQAAMEAAAtycJAAAABgBOAG8AcgBtAGEAbAAAAIAAAAYAKGABfSA
EE
YUoYAG1ICQRzSAkEdEgJBAAAAAAAAAAAAAAAAAAAAAAAAAAAEQAQSDy/6EARAAMDQAAAAAAB
AA
FgBEAGUAZgBhAHUAbAB0ACAAUABhAHIAyQBnAHIAyQBwAGgAIABGAG8AbgB0AAAAAABSAG
kA
8/+zAFIADA0AAAAAAAwBgwAVABhAGIAbABlACAATgBvAHIAbQBhAGwAAAAcABf2AwAANN
YG
AAEKA2wANNYGAAEFwAAYfYDAAACAAAsAAAAoAGsg9P/BACgAAA0AAAAAAAwBgCATgBvAC
AA
TABpAHMAdAAAAAIADAAAAAAVgD+b/H/8gBWAAwAAABSJ9wAAAAHAEQAZQBmAGEAdQBsAH
QA
AAALAA8ANyQAOCQASCQAACEAQioBQ0oYAF9IAQRhShgAbUgJBHBoAAAAAHNICQR0SAkEAD
YA
VWDy/wEBNgAMDAAAUifcADAGCQBIAHkAcABlAHIAbABpAG4AawAAAAwAPioBQioAcGgAAP
8A
SACZQAEAEgFIAAwNEgDlF+AAMAYMAEIAyQBsaGwAbwBvAG4AIABUAGUAeAB0AAAAAgARAB
QA
Q0oQAE9KBABRSgQAXkoEAGfKEABOAP5v8v8hAU4ADAERAOUX4AAwBhEAQgBhAGwAbABvAG
8A
bgAgAFQAZQB4AHQAIABDAGgAYQByAAAAFABDShAAT0oEAFFKBABeSgQAYUoQAFBLAwQUAA
YA
CAAAACEA6d4Pv/8AAAAcAgAAEWAAAFtDb250ZW50X1R5cGVzXS54bWyskctOwzAQRfdI/I
Pl

LUqcskAIJemCx47HonzAyJkkFsnYsqdV+/dM01RCqCAWbCzZM/eeO+NyvR8HtcOYnKdKr/
JC
KyTrG0ddpd83T9mtVomBGhg8YaUPmPS6vrwoN4eASYmaUqV75nBnTLI9jpbYH5Ck0vo4As
s1
diaA/YAOzXVR3BjriZE4481D1+UDtrAdWD3u5fmYJOKQtLo/Nk6sSkMIg7PAktTsqPlGyR
ZC
Lsq5J/UupCuJoc1ZwlT5GbDoXmU10TWO3iDyC4wSw7AMiV/PZyAZLea/O56J7NvWWWy83Y
6y
jnw2XsxOwf8UYPU/6BPTzh9bfwIAAP//AwBQSwMEFAAGAAgAAAAhAKXWp+fAAAAANgEAAA
sA
AABfcmVscy8ucmVsc4SPz2rDMAyH74W9g9F9UdLDGCV2L6WQQy+jfQDhKH9oIhvbG+vbT8
cG
CrsIhKtV96k9/q6L+eGU5yAWmqoGw+JDP8to4XY9v3+CyYWkpyUIW3hwhqN727VfvFDRoz
zN
MRulSlywlrIPiNlPvFKuQmTRyRDSSkXbNGIkf6eRcV/XH5ieGeA2TNP1FlLXN2Cuj6jJ/7
PD
MMyeT8F/ryzlRQRuN5RMaeRioagv4109kKhlqtQe0LW4+db9AQAA//8DAFBLAwQUAAYACA
AA
ACEAa3mWFoMAAACKAAAAHAAAAHROZW1lL3RoZW1lL3RoZW1lTWFuYWdlci54bWwMzE0Kwy
AQ
QOF9oXeQ2TdjuyhFYrLLrrv2AEOcGkHHoNKf29fl44M3zt8U1ZtLDVksnAcNimXNLoi38H
ws
pxuo2kgcxSxs4ccV5ul4GMm0jRPfSchzUX0jlZCFrbXdINa1K9Uh7yzdXrkkaj2LRlfo0/
cp
4kXrKyYKAjj9AQAA//8DAFBLAwQUAAYACAAAACEAMN1DKagGAACkGwAAFGAAAHRoZW1lL3
Ro
ZW1lL3RoZW1lMS54bWzsWU9v2zYUvw/YdyB0b2MndhoHdYrYsZstTRvEboceaYmW2FCiQN
JJ
fRva44ABw7phhxXYbYdhW4EW2KX7NNk6bB3Qr7BHUpLFWF6SntiKrT4kEvnj+/8eH6mr1+
7H
DB0SISlP2l79cs1DJPF5QJOW7d0e9i+teUgqnASY8YS0vSmR3rWN99+7itdVRGKCYH0i13
Hb
i5RK15eWpA/DWF7mKULgbsxFjBW8inApEPgI6MZsabllWW12KMU08lOAYyN4aj6lP0FCT9D
Zy
4j0Gr4mSesBnYqBJE2eFwQYHdY2QU91lAh1ilvaAT8CPhuS+8hDDUsFE26uZn7e0cXUJr2
eL
mFqwtrSub37ZumxBcLBseIpwVDct9xutK1sFfQNgah7X6/W6vXpBzwCw74OmVpYyzUZ/rd
7J
aZZA9nGedrfWrDVcfIn+ypzMrU6n02x1sl1iBmqfG3P4tdpqY3PZwRuQxTfn8I3OZre76u
AN
yOJX5/D9K63Vhos3oIjR5GAOrR3a72fUC8iYs+1K+BrA12ozfIaCaCiis7MY80QtirUY3+
Oi
DwANZFjRBklpSsbYhyju4ngkKNYM8DrBpRk75Mu5Ic0LSV/QVLW9D1MMGTGj9+r596+eP0
XH
D54dP/jp+OHD4wc/WkLOqm2chOVVL7/97M/HH6M/nn7z8tEX1XhZxv/6wye//Px5NRDSZy
bo
iy+f/PbsyYuvPv39u0cV8E2BR2X4kMZEopvkCO3zGBQzVnElJyNxvhXDCNPyis0klDjBmk
sF
/Z6KHPTNKWaZdxw5OsS14B0B5aMKeH1yzxF4EImJohWcd6LYAe5yzzpcVFphR/MqmXk4Sc
Jq
5mJSxuljffjFu4sTx7+9SQp1Mw9LR/FuRBwx9xhOFA5JQhTsc/yAkArt7lLq2HWX+oJLPl
bo

LkUdTcTnMqQjJ5pmi7ZpDH6ZVukM/nZss3sHdTir0nqLHLpIyArMKoQfEuaY8TqeKBxXkR
zi
mJUNfgOrqErIwVT4ZVxPKvB0SBhHvYBIWbXmLgB9S07fwVCxKt2+y6axixSKHlTRvIE5Ly
O3
+EE3wnFahR3QJCpjP5AHEKIY7XFVBd/lbobod/ADTha6+w4ljrtPrwa3aeiINAsQPTMRfb
68
TrgTv4MpG2NiSg0UdadWxzT5u8LNKFRuy+HiCjeUyhdfP66Q+20t2Zuwe1XlzPaJQr0Id7
I8
d7kI6NtfnbfwJNkjKBDzW9S74vyuOHv/+eK8KJ8vviTPqjAUaN2L2EbbtN3xwq57TBkbqC
kj
N6RpvCXsPUEfBvU6c+IkxSksjeBRZzIwcHChwGYNElx9RFU0iHAKTXvd00RCmZEOJUq5hM
Oi
Ga6krfHQ+Ct71GzqQ4itHBKrxR7Y4RU9nJ81CjJGqtAcaHNGK5rAWZmtXMMIgm6vw6yuhT
oz
t7oRzRRFh1uhsjaxOZSDyQvVYLCwJjQ1CFohsPIqnPk1azjsYEYCbXfro9wtxgsX6SIZ4Y
Bk
PtJ6z/uobpyUx8qcIloPGwz64HiK1UrcWprsg3A7i5PK7BoL2OXeexMv5RE88xJQO5mOLC
kn
J0vQUdtrNZebHvJx2vbGcE6GxzgFr0vdr2IWwmWTr4QN+1OT2WT5zJutXDE3Cepw9WHtPq
ew
UwdSIdUWlpENDTOVhQBLNCcr/3ITzHpRC1RUo7NJsbIGwfCvSQF2dF1LxmPiq7KzSyPadv
Y1
K6V8oogYRMERGrGJ2Mfgfh2qoE9AJVx3mIqgX+BuT1vbTLnFOUu68o2YwdlxzNIIZ+VWp2
ie
yRZuClIhg3kriQe6VcpulDu/KiblL0iVchj/z1TR+wncPqwE2gM+XA0LjHSmtD0uVMShCq
UR
9fsCGgdTOyBa4H4XpiGo4ILa/BfkUP+3OWdpmLSGQ6TapyESFPYjFQ1C9qAsmeg7hVg927
ss
SZYRMhFVElemVuwROSRsqGvgqt7bPRRBqJtqkpUBgzsZf+57lkGjUDc55XxzKlmx99oc+K
c7
H5vMoJRbh01Dk9u/ELFoD2a7q11vlud7b1kRPTFrsexp5VgCz0lbQytL+NUU451ZrK9acxs
vN
XDjw4rzGMFg0RCncISH9B/Y/Knxmv3boDXXI96G2Ivh4oYlB2EBUX7KNB9IF0g6OoHGygz
aY
NClr2qx10lbLN+sL7nQLvieMrSU7i7/PaeyiOXPZOb14kcbOLOzY2o4tNDV49mSKwtA4P8
gY
x5jPZOuvWXx0Dxy9Bd8MJkxJE0zwnUp6KEHJg8g+S1Hs3TjLwAAAP//AwBQSwMEFAAGAA
gA
AAAhaA3RkJ+2AAAAGwEAACcAAAB0aGVtZS90aGVtZS9fcMvscY90aGVtZU1hbmFnZXIueG
1s
LnJlbHOEj00KwjAUhPeCdwhvb906EJEm3YjQrdQDhOQ1DTY/JFHs7Q2uLAGuh2G+mWm715
3J
E2My3jFoqhoIOumVcZrBbbjsjkBSFk6J2TtksGCCjm837RVnkUsoTSYkUiguMZhyDidKk5
zQ
ilT5gK44o49W5CKjpkHIu9BI93V9oPGbAXzFJL1iEHvVABmWUJr/s/04GolnLx8WXf5RQX
PZ
hQUoosbM4COBqkwEylu6usTfAAAA//8DAFBLAQItABQABgAIAAAAIQDp3g+//wAAABwCAA
AT
AAAAAAAAAAAAAAAAAAAAAAAAAABbQ29udGVudF9UeXB1c10ueG1sUESBAi0AFAAGAAgAAAAhAK
XW
p+fAAAAANgEAAAsAAAAAAAAAAAAAAAAAAMAEEAF9yZWxzLy5yZWxzUESBAi0AFAAGAAgAAA
Ah

AGt5lhaDAAAigAAABwAAAAAAAAAAAAAAAAAGQIAAHRoZW1lL3RoZW1lL3RoZW1lTWFuYW
dl
ci54bWxQSwECLQAUAAYACAAAACEAMN1DKagGAACkGwAAFGAAAAAAAAAAAAAAAAADWAgaAdG
hl
bWUvdGh1bWUvdGh1bWUxLnhtbFBLAQITtABQABgAIAAAAIQAN0ZCftgAAABsBAAAnAAAAA
AA
AAAAAAAAALIJAAB0aGVtZS90aGVtZS9fcmVscy90aGVtZU1hbmFnZXIueGlsLnJlbHNSw
UG
AAAAAUABQBdAQAArQoAAAAAPD94bWwgdmVyc2lvcj0iMS4wIiBlbmNvZGluZz0iVVRGLT
gi
IHN0YW5kYWxvbmU9InllcyI/Pg0KPGE6Y2xyTWFwIHhtbG5zOmE9Imh0dHA6Ly9zY2h1bWw
Fz
Lm9wZW54bWxmb3JtYXRzLm9yZy9kcmF3aW5nbWwvMjAwNi9tYWluIiBiZzE9Imx0MSIgdH
gx
PSJkazEiIGJnMj0ibHQyIiB0eDI9ImRrMiIgyYWNjZW50MT0iYWNjZW50MSIgyYWNjZW50Mj
0i
YWNjZW50MiIgyYWNjZW50Mz0iYWNjZW50MyIgyYWNjZW50ND0iYWNjZW50NCIgyYWNjZW50NT
0i
YWNjZW50NSIgyYWNjZW50Nj0iYWNjZW50NiIgaGxpbms9ImhsaW5rIiBmb2xIbGluaz0iZm
9s
SGxpbnmsiLz4AAAAABAgAABwAABYAAAAA////wAIAAAEAAAACQAAAAIAAAEAAAACgAAAN
QD
AAASBAAAQgQAAJwFAADfBQA AFAYAAAQIAAATWBT/FYQ TWBT/FYQPAADwOAAAAAAAAABvAYAA
AA
AgQAAAIAAABAAAAAQAAAAEAAAACAAAAQA Ae8RAAAD//wAAAAD/AICAgAD3AAAQA A8AAv
CS
AAAAEAAI8AgAAAABAAAAAQAAA8AA/AwAAAADwAE8CgAAAABAAAnwEAAAAAAAAAAAAAAAAA
AA
AAAAAAACAARwCAAAAAEAAAFAAAADwAE8EIAAAA SAARwCAAAAAEAAAADgAAUwAL8B4AAA
C/
AQAAEADLAQAAAAD/AQAACA AEAwkAAAA/AwEAAQAAABHwBAAAAEAAAAAAAAAAfAAAAIEAAA
CV
AAAAAnwAAANoGAADfBgAABggAAAcAHAHAHBwABwAcAAcAAAAAEwDAABcAwAABggAAAcAMw
AH
AAAAAAxAAAAMQAAAKAAAACgAAAuAAAAALgAAAD8AAAA/wAAAIMBAACIAQAAlAEAAK4BAA
Cv
AQAArWEAALABAABEBAAARQQAEEUAADuBAAA7wQA AEwFAABNBQA AFwYAABcGAAC1BgAAvA
YA
AOWGAADsBgAAIQcAAAMIAAAGCAAAA wAEAA MABAADAAQA AwAEAA MABAADAAQA AwAEAA MABA
AD
AAQA AwAEAA MABAADAAQA AwAEAA MABAADAAQABwAHAAAA BAAAAAgAAADlAAAAAAAAA YAAA
C3
JwkAPjQkAH4lMwCBR8YAoxTXAFIn3ADlF+AAAAAAAAAQIAAAGCAAAAAAAAAEAAAAD/QAGAAQ
Av
BQAALwUAAAAAAAAABAEALwUAAAAAAAAAvBQAAAAAAAAAQAAAAAAAAAQIAADgAAAQAEAAAP
//
AQAAAACAVQBUAGsAbgBvAHcAbgD//wEACAAAAAAAAAAAAAAAA//8BAAAAAAD//wAAAgD//w
AA
AAD//wAAAgD//wAAAAGAAAARx6QAQAAAgIGAwUEBQIDBP8qAOBBEADACQAAAAAAAAAD/AQ
AA
AAAAAFQAaQBtAGUAcwAgAE4AZQB3ACAAUgBvAG0AYQBwAAAAANR6QAQIABQUBAgEHBgIFBw
AA

AAAAAAQAAAAAAAAAAAAACAAAAAFMAeQBtAGIAbwBsAAAAMy6QAQAAAgSGBAICAgICBP
8q
AOBDeADACQAAAAAAAAAD/AQAAAAAAAAEEAcgBpAGEAbAAAAADcukAEAAAI PBQICAgQDAgT/Ag
Dh
/6wAQAkAAAAAAAAAnwEAAAAAAAABDAGEAbABpAGIACgBpAAAANS6QAQAAAgSGBAMFBAQCBP
8u
AOFbYADAKQAAAAAAAAAD/AQEAAAAAFQAYQB0AG8AbQBhAAAAQR6QAQAAAgQFAwUEBgMCBP
8C
AOD/JABCAAAAAAAAAACfAQAAAAAAEMAYQBtAGIACgBpAGEAIABNAGEAdAB0AAAAI gAEAH
EI
iBgA8NACAAB0AQAAAADGggpH84IKRwAAAAADACgAAAAyAQAA0gYAAAEABAAAAAQAA5AOAA
AA
MgEAANIGAAABAAQAAAAOAAAAAAAAACEDAPAQAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA
AA
AA
AA
AA
AA
AA
AA
AA
AAAAAAAAAAAAAAAAAAAAAAAAAKAF0AW0ALQAgYEyMAAAAAAAAAAAAAAAAAAAAAgAAAAIAAAAA
AA
AA
AA
AAACAAAAAAAAAAAAEODUQDwEAAIAPz9AQAAAAAAAAAAAAAAAAAAAAAAAAAAAAhIUAA
AA
AAAJ8P8PAQgkUAAA5AQAAp///3///9/////f///3///9/////f///39SJ9wAAAQAAD
IA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAhBAAAAAAAAAAAAAAAAAAAAABAcAAAFAAAAAAAAAA
AA
eAAAAHgAAAAAAAAAAAAAKAFAAAAAAAAACwAAAAAADcAAA//8SAAAAAAAAAAAAAAAA
AA
BwBOAE8AUwBUAEUATQBQAAwAUgBpAGMAawAgAEwAdQBtAHAAwBpAG4AAAAAAAAAAAA
AA
AA
AA
AA
AA
AA
AA
/v8AAAYBAgAAAAAAAAAAAAAAAAAAAAQAAOCfn/L5T2gQq5EIACsns9kwAAAXAEAB
AA
AAABAAAAiAAAAIAAACQAAAAwAAAJwAAAEAAAAqAAAAUAAAC4AAAABwAAAMQAAAAIAA
AA
1AAAAkAAADsAAAAEgAAAPgAAAAKAAAAGAEAAAwAAAAkAQAADQAAADABAAA0AAAAPEAAA
8A
AABEAQAAEAAAAEwBAAATAAAAVAEAAAI AAADkBAAHgAAAAQAAAAAAAAAHgAAAAQAAAAAA
AA

