From: Robert Whittier
To: Nancy Rumrill/R9/USEPA/US@EPA
Cc: Wendy Wiltse/R9/USEPA/US@EPA
Subject: Re: Fw: Lahaina plume modelling 1993
Date: 04/15/2011 05:26 PM

Nancy and Wendy,

Thank you and have a nice weekend!

Bob Whittier

On 4/15/11, Rumrill.Nancy@epamail.epa.gov <Rumrill.Nancy@epamail.epa.gov> wrote:
> Bob,
>
> I've looked for that document in the past too and have not found it.
>
> Sorry, Nancy
>
>
>
> From:
> Robert Whittier <whittier@hawaii.edu>
> To:
> Wendy Wiltse/R9/USEPA/US@EPA
> Cc:
> "Craig R. Glenn" <glenn@soest.hawaii.edu>, Nancy Rumrill/R9/USEPA/US@EPA
> Date:
> 04/15/2011 03:37 PM
> Subject:
> Re: Fw: Lahaina plume modelling 1993
>
>
>
> Wendy,
>
> Thank you for looking for it.
>
> Bob W.
>
> On 4/15/11, Wiltse.Wendy@epamail.epa.gov <Wiltse.Wendy@epamail.epa.gov>
> wrote:
>> Bob,
>>
>> I think I would have that report if anybody does....and I don't have it.
>>
>> Sorry,
>> Wendy
>>
>> Wendy Wiltse, Ph.D.
>> EPA-PICO
>> 300 Ala Moana Blvd. Box 50003
>> Room 5-152
>> Honolulu, HI 96850
>> Phone: (808) 541-2752
>> FAX: (808) 541-2712
>>
>>
>>
>> From:
>> Robert Whittier <whittier@hawaii.edu>
>> To:
>> Nancy Rumrill/R9/USEPA/US@EPA
>> Cc:
>> Wendy Wiltse/R9/USEPA/US@EPA, "Craig R. Glenn" <glenn@soest.hawaii.edu>
>> Date:
>> 04/15/2011 11:19 AM
>> Subject:
>> Re: Fw: Lahaina plume modelling 1993
>>
>>
>>
>> Nancy,
>>
>> Thanks for the copy of the study. I apologize for not being clear.
>> We have that study and the Tetra Tech nutrient survey study. They are
>> invaluable. But what I was looking was the study design plan document
>> that Tetra Tech submitted in 1993.
>>
>> Tetra Tech, Inc. 1993. A Field Study Design to Investigate the Fate
> of
>> the Lahaina Wastewater Reclamation Facility Effluent. February, 1993.
>>
>> I am working on the details of our study design plan and though Tetra
>> Tech's would provide useful information. If you can't find it quickly
>> please don't spend too much time on it as most of the information is
>> included in the 1994 report.
>>
>> Thank you,
>> Robert Whittier
>>
>>
>>
>> On 4/15/11, Rumrill.Nancy@epamail.epa.gov
> <Rumrill.Nancy@epamail.epa.gov>
>> wrote:

>>> Bob, Here's the study. Let me know if you have any questions for me.
>>> Nancy
>>>
>>>
>>> ----- Forwarded by Nancy Rumrill/R9/USEPA/US on 04/15/2011 09:46 AM
>> -----
>>>
>>> From:
>>> Wendy Wiltse/R9/USEPA/US
>>> To:
>>> Nancy Rumrill/R9/USEPA/US@EPA
>>> Date:
>>> 04/14/2011 04:26 PM
>>> Subject:
>>> Fw: Lahaina plume modelling 1993
>>>
>>>
>>> Nancy,
>>>
>>> Bob Whittier wants to review the 1993 Tracer study and I just cannot
>> find
>>> my electronic copy.   Just wasted a bunch of time looking for it. Can
>>> you easily find this report and send to Bob?   If not,   I do have a
>> hard
>>> copy he can borrow.
>>>
>>> Thanks,
>>> Wendy
>>>
>>>
>>> Wendy Wiltse, Ph.D.
>>> EPA-PICO
>>> 300 Ala Moana Blvd. Box 50003
>>> Room 5-152
>>> Honolulu, HI 96850
>>> Phone: (808) 541-2752
>>> FAX: (808) 541-2712
>>> ----- Forwarded by Wendy Wiltse/R9/USEPA/US on 04/14/2011 01:25 PM
> -----
>>>
>>> From:
>>> Robert Whittier <whittier@hawaii.edu>
>>> To:
>>> Wendy Wiltse/R9/USEPA/US@EPA
>>> Date:
>>> 04/13/2011 12:11 PM
>>> Subject:
>>> Re: Lahaina plume modelling 1993
>>>
>>>
>>>
>>> Wendy,
>>>
>>> Between you and Chip Hunt we have gotten a complete set of the
> TetraTech
>>> study of the Lahaina marine nutrient problem. However, there is one
>> more
>>> that is important and I was wondering if you had a pdf of it. It is:
>>> Tetra Tech, Inc. 1993. A Field Study Design to Investigate the Fate
> of
>>> the Lahaina Wastewater Reclamation Facility Effluent. February, 1993.
>>> Report prepared for U.S. Environmental Protection Agency, Region 9, San
>>> Francisco.
>>> Thank you for your help,
>>>
>>> Bob Whittier
>>>
>>>
>>> On Fri, Feb 25, 2011 at 7:31 AM, Robert Brent Whittier <
>>> whittier@hawaii.edu> wrote:
>>> Wendy,
>>>
>>> Thank you. Will review that report and compare with some larger scale
>>> modeling I have done for Maui.
>>>
>>> Thanks,
>>>
>>> Robert B. Whittier, Hydrogeologist
>>> University of Hawaii, Dept. of Geology and Geophysics
>>> 2525 Correa Rd., HIG 217
>>> Honolulu, Hi 96822
>>>
>>> Ph.: 808 956-4777 Cell.: 808 387-4869
>>> Fax.: 808 956-5512
>>>
>>> email: whittier@hawaii.edu
>>>
>>>
>>>
>>>
>>> ----- Original Message -----
>>> From: Wiltse.Wendy@epamail.epa.gov
>>> Date: Thursday, February 24, 2011 5:35 pm
>>> Subject: Lahaina plume modelling 1993
>>> To: "Craig R. Glenn" <glenn@soest.hawaii.edu>
>>> Cc: Cindy Barger <cindy.s.barger@usace.army.mil>, Dan Chang <
>>> daniel.chang@doh.hawaii.gov>, Albright.David@epamail.epa.gov, "Aly I.
>>> El-Kadi" <elkadi@hawaii.edu>, Henrieta Dulaiova <hdulaiov@hawaii.edu>,
>>> Slay.Hudson@epamail.epa.gov, Benny Hagedorn <khagedor@hawaii.edu>,
>>> Rumrill.Nancy@epamail.epa.gov, rbabcock@hawaii.edu, Watson Okubo <
>>> watson.okubo@doh.hawaii.gov>, Bob Whittier <whittier@hawaii.edu>

>>>
>>>> Thank you all for participating in the meeting this morning to discuss
>>> sampling of the wastewater seeps at Kahekili. I do appreciate your
> time
>>> and expertise on these matters.   I am attaching a report from 1993
>> that
>>> contains some modeling of the injected wastewater and an estimated time
>> of
>>> travel to ocean = 10 days.   Check out the discussion on pages 33-44
> and
>>> also p 69-77.
>>>>
>>>>
>>>>
>>>>
>>>>
>>>> I also checked Chip Hunt's 2010 report to identify the key
>>> pharmaceuticals that are good indicators of sewage.   They are
>>> carbamaxepine and sulfamethoxozole (anticonvulsant and antibiotic,
>>> respectively).   Chip cautions that the analyses are costly so he only
>>> ran 4 samples.   We should put our heads together to determine the most
>>> critical need for these analyses.
>>>>
>>>> Wendy
>>>>
>>>>
>>>> Wendy Wiltse, Ph.D.
>>>> EPA-PICO
>>>> 300 Ala Moana Blvd. Box 50003
>>>> Room 5-152
>>>> Honolulu, HI 96850
>>>> Phone: (808) 541-2752
>>>> FAX: (808) 541-2712
>>>>
>>>>
>>>> From:
>>> "Craig R. Glenn" <glenn@soest.hawaii.edu>
>>>> To:
>>> Nancy Rumrill/R9/USEPA/US@EPA
>>>> Cc:
>>> Cindy Barger <cindy.s.barger@usace.army.mil>, Dan Chang <
>>> daniel.chang@doh.hawaii.gov>, "Aly I. El-Kadi" <elkadi@hawaii.edu>,
>>> Henrieta Dulaiova <hdulaiov@hawaii.edu>, Hudson Slay/R9/USEPA/US@EPA,
>>> Benny Hagedorn <khagedor@hawaii.edu>, rbabcock@hawaii.edu, Watson Okubo
>> <
>>> watson.okubo@doh.hawaii.gov>, Wendy Wiltse/R9/USEPA/US@EPA, Bob
> Whittier
>> <
>>> whittier@hawaii.edu>, David Albright/R9/USEPA/US@EPA
>>>> Date:
>>> 02/23/2011 04:45 PM
>>>> Subject:
>>> Re: Lahaina Tracer Meeting
>>>
>>
>>
>> --
>> Robert B. Whittier
>> University of Hawaii
>> Department of Geology and Geophysics
>> 1680 East West Road, POST 701
>> Honolulu, Hi 96822
>>
>> Ph: (808)956-4777   Fax: (808)956-5512
>> Cell: (808)387-4869
>>
>>
>
>
> --
> Robert B. Whittier
> University of Hawaii
> Department of Geology and Geophysics
> 1680 East West Road, POST 701
> Honolulu, Hi 96822
>
> Ph: (808)956-4777   Fax: (808)956-5512
> Cell: (808)387-4869
>
>

--
Robert B. Whittier
University of Hawaii
Department of Geology and Geophysics
1680 East West Road, POST 701
Honolulu, Hi 96822

Ph: (808)956-4777   Fax: (808)956-5512
Cell: (808)387-4869