Portland Community College

Kevin Crowley <kevin.crowley@pcc.edu>

PCC SY-HT--Mercury Trap--spill liquids lab anlaysis for Mercury

6 messages

Mike Gibson <envirosearch@bctonline.com> Wed, Jun 8, 2016 at 4:56 PM
To: Kevin Crowley <kevin.crowley@pcc.edu>
Cc: Chris Ells <cells@pcc.edu>, Elaine Hunter <elaine.hunter@pcc.edu>

Hi Kevin,

Here is the lab report, fresh from the lab.

One page has the total mercury contained in the liquid sample and the next page has the TCLP-leachable Mercury contained in the liquid spill material sample.

Results are in mg/kg, otherwise known as PPM (parts per million).

The levels are HIGH for both the TOTAL and TCLP results...somewhat expected for a 'trap' collection system that is doing its designed job---the TOTAL was expected, but much higher than expected for the TCLP results.

EPA and DEQ RCRA hazardous waste levels for Mercury are 0.2 mg/kg and above; so, you can see this is MUCH higher than the hazardous waste threshold and thus is deemed a RCRA hazardous waste and requires special packaging, management and disposal.

We would recommend that the drain have a sampling valve installed into a 'P' trap area in order to allow for collection of the flow/waste before the separator unit to find out what the actual mercury levels are in the waste flow prior to concentrating in the accumulator/separator unit.

As discussed via phone; we don't believe this could have been a respirator or health issue for those in the HT building or child-care area as the material was in liquid form and was not in the primary air flow path zone.

Any questions, please let me know.

Take care,

MG

Michael W. Gibson

Senior CHMM, WSO-CSS

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SY HT Mercury amalgum trap spill liquids lab analysis report 6-8-16.pdf
489K

Elaine Hunter <elaine.hunter@pcc.edu> Wed, Jun 8, 2016 at 9:09 PM
To: Mike Gibson <envirosearch@bctonline.com>
Cc: Kevin Crowley <kevin.crowley@pcc.edu>, Chris Ells <cells@pcc.edu>

My understanding is the unit will be replaced. I don't know if the old unit contimanated with mercury will be left to PCC to dispose of.

Elaine Hunter
Cell Phone: 503-330-8085
Sent from my iPad
[Quoted text hidden]

| <SY HT Mercury amalgum trap spill liquids lab analysis report 6-8-16.pdf>

Mike Gibson <envirosearch@bctonline.com> Thu, Jun 9, 2016 at 7:30 AM
To: Elaine Hunter <elaine.hunter@pcc.edu>
Cc: Kevin Crowley <kevin.crowley@pcc.edu>, Chris Ells <cells@pcc.edu>

Yes—that is an issue I talked with Kevin about, being a RCRA hazardous waste its important to 'not' 'take it away' until its known for sure their 'recycle' program is valid and not a sham like Merry-X-Ray was.....

MG

Michael W. Gibson

Senior CHMM, WSO-CSS

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From: Elaine Hunter [mailto:elaine.hunter@pcc.edu]
Sent: Wednesday, June 08, 2016 9:09 PM
To: Mike Gibson
Cc: Kevin Crowley; Chris Ells
Subject: Re: PCC SY-HT--Mercury Trap--spill liquids lab anlaysis for Mercury

[Quoted text hidden]

Mike Gibson <envirosearch@bctonline.com> Thu, Jun 9, 2016 at 9:37 AM
To: Kevin Crowley <kevin.crowley@pcc.edu>
Cc: Chris Ells <cells@pcc.edu>, Elaine Hunter <elaine.hunter@pcc.edu>

Good morning Kevin,

As a related note: I will be onsite next Monday to perform some waste work in Dental and Chemistry and can sample at that time if there is flow from Dental as well as a sampling port/valve for access.

Otherwise I will be on vacation for the next 8 days related to my sons wedding thereafter, Tuesday through the following Wednesday.

Take care,

MG

Michael W. Gibson

Senior CHMM, WSO-CSS

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From: Elaine Hunter [mailto:elaine.hunter@pcc.edu]
Sent: Wednesday, June 08, 2016 9:09 PM
To: Mike Gibson
Cc: Kevin Crowley; Chris Ells
Subject: Re: PCC SY-HT--Mercury Trap--spill liquids lab anlaysis for Mercury

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Kevin Crowley <kevin.crowley@pcc.edu> Thu, Jun 9, 2016 at 7:33 PM
To: Elaine Hunter <elaine.hunter@pcc.edu>
Cc: Jeff Edwards <jeff.edwards1@pcc.edu>

Elaine,

Burkhart may be on campus tomorrow or Monday to install the new amalgam separator. As you know from Mike's email, the results of the TCLP showed a mercury concentration of 24 mg/kg compared to a threshold of 0.2mg/L.

Knowing the test results of the liquid that came out of the separator and not knowing the condition of the

separator itself, I would suggest that we refrain from having Burkhart take anything off campus tomorrow unless they have a HW manifest to accompany the shipment.

Also, Mike Gibson is requesting that we install a sampling port in the line leading into the separator to facilitate collecting samples in the future.

Finally, I wanted to let you know that we suspect that the dust arrestor in the room east of the amalgam separator is contributing to the health conditions reported by people in the CDC. The unit was found open and there is white dust on the floor in the room housing the unit as well on the unit's exterior. I talked to Tony today about having Mike Gibson clean the area so we can develop a baseline of housekeeping and improve air quality.

Your thoughts on the above items would be helpful as they impact the HW program.

Thanks,

Kevin

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Elaine Hunter <elaine.hunter@pcc.edu> Thu, Jun 9, 2016 at 7:58 PM
To: Kevin Crowley <kevin.crowley@pcc.edu>
Cc: Jeff Edwards <jeff.edwards1@pcc.edu>

Yes I agree that Burkhardt shouldn't take the old equipment, but it will have to be put in drum to properly store it in the Haz shed. We do have some extra drums in supply shed and fenced area.

It's fine with having Mike clean out the dust collector area as he assisted in the past with cleaning this equipment, but Dental has been using a different vendor in the past couple of years. The dust collector was implicated in the last air quality problem with the CDC. I believe the third or fourth drawer from the top of my tall filing cabinet on the right hand side is the extensive file that Mark Fennell kept on the last big indoor air quality issue in the CDC. You may want to look through that file for any information that might be helpful. I believe DeEtta wrote a report that is in that file. You know what they say about history repeating itself if we don't learn from it.

Elaine Hunter
Cell Phone: 503-330-8085
Sent from my iPad
[Quoted text hidden]