Mcpherson, Benjamin J (DEC)

From: Glaza, Edward <Edward.Glaza@parsons.com>
Sent: Wednesday, August 18, 2021 3:32 PM
To: Mcpherson, Benjamin J (DEC)
Cc: Moreau, George H; Galloway, Rich; Chamberland, Daniel; Clark, Megan; Domanski, Joshua; Schweigel, Tayler; heather.fettig@parsons.com; Lenway, Linda; Martin, Angela L (HEALTH)
Subject: RE: Site 108 Wetland Sampling Optimization

Categories: Review

Will do for these wells/piezometers, however that was not the standard practice for the program overall. For consistency, we will keep the full analytical list. Thanks.

From: Mcpherson, Benjamin J (DEC) <benjamin.mcpherson@dec.ny.gov>
Sent: Wednesday, August 18, 2021 3:19 PM
To: Glaza, Edward <Edward.Glaza@parsons.com>
Cc: Moreau, George H <George.H.Moreau@parsons.com>; Galloway, Rich <rich.galloway@honeywell.com>; Chamberland, Daniel <Daniel.Chamberland@parsons.com>; Clark, Megan <Megan.Clark@parsons.com>; Domanski, Joshua <Joshua.Domanski@parsons.com>; Schweigel, Tayler <Tayler.Schweigel@parsons.com>; Fettig, Heather <Heather.Fettig@parsons.com>; Lenway, Linda <Linda.Lenway@parsons.com>; Martin, Angela L (HEALTH) <Angela.Martin@health.ny.gov>
Subject: [EXTERNAL] RE: Site 108 Wetland Sampling Optimization

Ed,
I prefer to have analytical from soil within the well screen (regardless of field indicators) since that helps inform whether any potential groundwater contamination is from the surrounding soil or if it is migrating from elsewhere. I am ok with reducing the number of analytical parameters if no impacts are found to the site COCs.

Ben

From: Glaza, Edward <Edward.Glaza@parsons.com>
Sent: Wednesday, August 18, 2021 2:50 PM
To: Mcpherson, Benjamin J (DEC) <benjamin.mcpherson@dec.ny.gov>
Cc: Moreau, George H <George.H.Moreau@parsons.com>; Galloway, Rich <rich.galloway@honeywell.com>; Chamberland, Daniel <Daniel.Chamberland@parsons.com>; Clark, Megan <Megan.Clark@parsons.com>; Domanski, Joshua <Joshua.Domanski@parsons.com>; Schweigel, Tayler <Tayler.Schweigel@parsons.com>; heather.fettig@parsons.com; Lenway, Linda <Linda.Lenway@parsons.com>; Martin, Angela L (HEALTH) <Angela.Martin@health.ny.gov>
Subject: RE: Site 108 Wetland Sampling Optimization

Thanks for the quick response. Only change is the current plan would be to analyze the sample deeper than 5' in the monitoring well/piezometer borings for the full suite (TCL VOCs, SVOCs (including the 34 PAHs specified in NYSDEC

2014), pesticide/PCBs, TAL metals, cyanide, TOC, and PFAS) not just SVOCs, TOC and VOCs. The deeper samples would only be collected if tar present (not anticipated) or it exhibits signs of contamination (i.e. staining, elevated PID reading, etc.).

From: Mcpherson, Benjamin J (DEC) <benjamin.mcpherson@dec.ny.gov>
Sent: Wednesday, August 18, 2021 2:21 PM
To: Glaza, Edward <Edward.Glaza@parsons.com>
Cc: Moreau, George H <George.H.Moreau@parsons.com>; Galloway, Rich <rich.galloway@honeywell.com>; Chamberland, Daniel <Daniel.Chamberland@parsons.com>; Clark, Megan <Megan.Clark@parsons.com>; Domanski, Joshua <Joshua.Domanski@parsons.com>; Schweigel, Tayler <Tayler.Schweigel@parsons.com>; Fettig, Heather <Heather.Fettig@parsons.com>; Lenway, Linda <Linda.Lenway@parsons.com>; Martin, Angela L (HEALTH) <Angela.Martin@health.ny.gov>
Subject: [EXTERNAL] RE: Site 108 Wetland Sampling Optimization

Ed,

My understanding of the proposed modification is summarized below, with my interpretations in [red]:

- Sampling and analysis of MW-4 [MW-14-2020] and PZ-2 [PZ-2-2020] consistent with the sediment core rather than the well/piezometer soil approach [samples from 0-6", 6-12", 1-2', 2-3', 3-4', and 4-5' all analyzed for TCL VOCs, SVOCs (including the 34 PAHs specified in NYSDEC 2014), pesticide/PCBs, TAL metals, cyanide, TOC, and PFAS]. However, consistent with the soil sampling strategy, for the soils deeper than 5 feet, an additional sample will be collected in the 1-foot interval beneath tar, if present. If tar is not present, a sample will be collected from elsewhere in the boring if it exhibits signs of contamination (i.e. staining, elevated PID reading, etc.) [sample from >5' will be for SVOCs and TOC only].
- Eliminating sediment core locations SED 10 [SED-10-2020] and SED 20 [SED-12-2020] (replaced with the sampling above)
- Moving sediment core location SED 11 so it is equal distance between MW-14 and PZ-2, and having the drillers collect the core using a split spoon [and renamed SED-10-2020. Will be sampled as described in the first bullet to depth of 5' or native soil, whichever comes first].

Also, considering the limited results I have seen from Site 110 and the BCP site I would request that the >5' soil samples from all the monitoring well/piezometer installations also be analyzed for TCL VOCs.

Please let me know if my interpretations above are correct and you are agreeable to my request for additional VOC analysis.

Thank you,
Ben

Benjamin McPherson, P.E.
(he/him/his)
Professional Engineer 1 (Environmental), Division of Environmental Remediation

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P: (716) 851-7220 | F: (716) 851-7226 | benjamin.mcpherson@dec.ny.gov
www.dec.ny.gov [dec.ny.gov] [protect2.fireeye.com]

From: Glaza, Edward <Edward.Glaza@parsons.com>
Sent: Wednesday, August 18, 2021 12:38 PM

To: Mcpherson, Benjamin J (DEC) <benjamin.mcpherson@dec.ny.gov>
Cc: Moreau, George H <George.H.Moreau@parsons.com>; Galloway, Rich <rich.galloway@honeywell.com>; Chamberland, Daniel <Daniel.Chamberland@parsons.com>; Clark, Megan <Megan.Clark@parsons.com>; Domanski, Joshua <Joshua.Domanski@parsons.com>; Schweigel, Tayler <Tayler.Schweigel@parsons.com>; heather.fettig@parsons.com; Lenway, Linda <Linda.Lenway@parsons.com>
Subject: RE: Site 108 Wetland Sampling Optimization

Figure attached. Note that PZ-4 has been renamed as MW-15 since it was agreed this would be a monitoring well and sampled to verify no impacts from the tunnel under River Road

---

From: Glaza, Edward
Sent: Wednesday, August 18, 2021 11:00 AM
To: Mcpherson, Benjamin J (DEC) <benjamin.mcpherson@dec.ny.gov>
Cc: Moreau, George H <George.H.Moreau@parsons.com>; Galloway, Rich <rich.galloway@honeywell.com>; Chamberland, Daniel <Daniel.Chamberland@parsons.com>; Clark, Megan <Megan.Clark@parsons.com>; Domanski, Joshua <Joshua.Domanski@parsons.com>; Schweigel, Tayler <Tayler.Schweigel@parsons.com>; Fettig, Heather <Heather.Fettig@parsons.com>; Lenway, Linda <Linda.Lenway@parsons.com>
Subject: RE: Site 108 Wetland Sampling Optimization

correct

From: Mcpherson, Benjamin J (DEC) <benjamin.mcpherson@dec.ny.gov>
Sent: Wednesday, August 18, 2021 10:54 AM
To: Glaza, Edward <Edward.Glaza@parsons.com>
Cc: Moreau, George H <George.H.Moreau@parsons.com>; Galloway, Rich <rich.galloway@honeywell.com>; Chamberland, Daniel <Daniel.Chamberland@parsons.com>; Clark, Megan <Megan.Clark@parsons.com>; Domanski, Joshua <Joshua.Domanski@parsons.com>; Schweigel, Tayler <Tayler.Schweigel@parsons.com>; Fettig, Heather <Heather.Fettig@parsons.com>
Subject: [EXTERNAL] RE: Site 108 Wetland Sampling Optimization

Thanks. Also to clarify, all the sediment and wells/piezometers will be installed using a HSA and split spoon?

From: Glaza, Edward <Edward.Glaza@parsons.com>
Sent: Wednesday, August 18, 2021 10:45 AM
To: Mcpherson, Benjamin J (DEC) <benjamin.mcpherson@dec.ny.gov>
Cc: Moreau, George H <George.H.Moreau@parsons.com>; Galloway, Rich <rich.galloway@honeywell.com>; Chamberland, Daniel <Daniel.Chamberland@parsons.com>; Clark, Megan <Megan.Clark@parsons.com>; Domanski, Joshua <Joshua.Domanski@parsons.com>; Schweigel, Tayler <Tayler.Schweigel@parsons.com>; heather.fettig@parsons.com
Subject: RE: Site 108 Wetland Sampling Optimization

Agree on the timing, sorry about that. Will send a figure soon.

From: Mcpherson, Benjamin J (DEC) <benjamin.mcpherson@dec.ny.gov>
Sent: Wednesday, August 18, 2021 10:37 AM
To: Glaza, Edward <Edward.Glaza@parsons.com>
Cc: Moreau, George H <George.H.Moreau@parsons.com>; Galloway, Rich <rich.galloway@honeywell.com>; Chamberland, Daniel <Daniel.Chamberland@parsons.com>; Clark, Megan <Megan.Clark@parsons.com>; Domanski, Joshua <Joshua.Domanski@parsons.com>; Schweigel, Tayler <Tayler.Schweigel@parsons.com>; Fettig, Heather <Heather.Fettig@parsons.com>
Subject: [EXTERNAL] RE: Site 108 Wetland Sampling Optimization

Ed,

Seeing as this has been delayed with the permits it would have been appreciated if you had asked before now, but that being said, please provide a figure showing the proposed sample modifications you outlined below.

Thanks,
Ben

From: Glaza, Edward <Edward.Glaza@parsons.com>
Sent: Wednesday, August 18, 2021 10:23 AM
To: Mcpherson, Benjamin J (DEC) <benjamin.mcpherson@dec.ny.gov>
Cc: Moreau, George H <George.H.Moreau@parsons.com>; Galloway, Rich <rich.galloway@honeywell.com>; Chamberland, Daniel <Daniel.Chamberland@parsons.com>; Clark, Megan <Megan.Clark@parsons.com>; Domanski, Joshua <Joshua.Domanski@parsons.com>; Schweigel, Tayler <Tayler.Schweigel@parsons.com>; heather.fettig@parsons.com
Subject: Site 108 Wetland Sampling Optimization

Ben
Provided below are proposed minor changes to the investigation scope within the footprint of the former Erie Canal. Please let us know ASAP if this is acceptable given that we plan to start the field work tomorrow. Thanks.

The original WP specified collection of the 3 sediment cores shown below. The 3 wells/piezometers were added subsequent to the final WP (12/20/20 email). The WP and subsequent email specifies the following for sediment core and well/piezometer soil sampling:

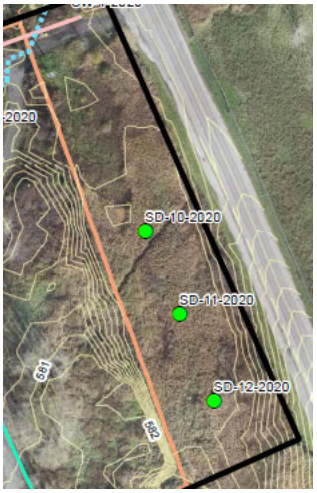
- Well/piezometer soil sampling. Soil samples will be collected at 0 to 2 inches and 2 to 12 inches below grade. An additional sample will be collected in the 1-foot interval beneath tar, if present. If tar is not present, a sample will be collected from elsewhere in the boring that exhibits signs of contamination (i.e. staining, elevated PID reading, etc.). All samples will be analyzed for SVOCs and TOC. Samples from the 3 new locations will be analyzed for the full suite of analyses including TCL VOCs, SVOCs, and pesticide/PCBs, TAL metals, cyanide, and PFAS.
- Sediment core sampling. Samples will be collected using a slide hammer and macrocore Lexan liner to a maximum of 5 ft bgs or until native material is encountered. Sampling methods, locations, and total depths are subject to change based on an inspection of the current conditions at sampling locations. Samples will be collected in 6-inch intervals up to 1 ft bgs, and in 1-foot intervals from 1 to 5 ft bgs or until native material is encountered, whichever comes first. If native material is encountered, a sample will be collected from the top 1 ft. Cores will be visually assessed, photographed, screened with a PID, and observations will be documented in a field log. Samples will be analyzed for TCL VOCs, SVOCs (including the 34 PAHs specified in NYSDEC 2014),

pesticide/PCBs, TAL metals, cyanide, TOC, and PFAS. After sampling, the location of each sample location will be surveyed.

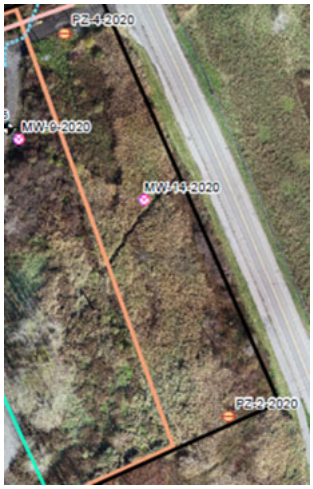
Given the proximity of MW-14 and PZ-2 to the wetland sediment cores, we propose modifying the scope as follows.

- Sampling and analysis of MW-4 and PZ-2 consistent with the sediment core rather than the well/piezometer soil approach. However, consistent with the soil sampling strategy, for the soils deeper than 5 feet, an additional sample will be collected in the 1-foot interval beneath tar, if present. If tar is not present, a sample will be collected from elsewhere in the boring if it exhibits signs of contamination (i.e. staining, elevated PID reading, etc.).
- Eliminating sediment core locations SED 10 and SED 20 (replaced with the sampling above)
- Moving sediment core location SED 11 so it is equal distance between MW-14 and PZ-2, and having the drillers collect the core using a split spoon

Sediment Cores



Wells & Piezometers



Wetland Area

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MW-6	Unit	Class GA Standard	10/10/1989	12/13/1989
Cyanide (total)	µg/L	200	320	300

MW18-91	Unit	Class GA Standard	07/16/1991
cis-1,2-Dichloroethene	µg/L	5	7.68

MW8-89	Unit	Class GA Standard	06/30/1989
Benzene	µg/L	1	41
Toluene	µg/L	5	16
Ethylbenzene	µg/L	5	8
Naphthalene	µg/L	10	1,900
Beryllium	µg/L	3	3.6
Cyanide (total)	µg/L	200	3,730

MW-7	Unit	Class GA Standard	08/18/2005
Trichloroethene	µg/L	5	6 J

MW-15-2020
MW-6
PZ-3-2020
MW-9-2020
MW-14-2020
MW-13-2020
SD-10-2020
PZ-2-2020
PZ-1-2020
MW18-91
MW18D-05
MW-10-2020
MW8-89
MW-11D-2020
MW-11S-2020
MW-7
MW-12S-2020
MW-12D-2020

- Proposed Piezometers
- Proposed Monitoring Wells
- Historic GW Monitoring Well Location
- Proposed Wetland Sediment Sample
- Low-Lying Area per Topographic Survey
- Drainage Ditch
- Abandoned Portion of Ditch
- Culvert to Drainage Ditch
- Coal Conveyor
- Relocated Ditch per Site 108 Remediation Activities Summary Report (Neu-Ville, March 2019)
- Former Rattlesnake Creek Channel (USGS Topographic Map, 1901)
- Site Boundary
- Property Boundary

0 100 200 400 Feet

N

Plotted By: CS

Plot Date: 8/18/2021

Figure 7 - Revised

Honeywell

TONAWANDA COKE
3800 RIVER RD
TONAWANDA, NEW YORK

Historic Exceedances of Class GA Standards and Proposed Monitoring Well and Piezometer Locations

PARSONS

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Document Path: Q:\GIS\Hon_Syracuse\Tonawanda Coke\Tonawanda Site 108 Proposed GW.mxd