

**Meeting Minutes
BCT Meeting
23 October 2019
Teleconference**

Bay West Project No. J150073
Location: Teleconference

Meeting Date: Wednesday, 23 October 2019
Meeting Time: 0900-1030 EST

MEETING ATTENDEES VIA TELECONFERENCE:

Dan Medina	AFCEC	Lee Major	Cherokee Nation
Seb Gillette	AFCEC/CZTE	Mark Weegar	Cherokee Nation
Beth Place	EGLE	Matt Baltusis	EGLE
Mike Jury	EGLE	Charlie Bauer	EGLE
Matt Siler	EGLE	Amanda Armbruster	EGLE
Dale Corsi	DLZ	Jeremiah Morse	AECOM
Andy Karg	EGLE	Paul Walz	Bay West
Abiy Mussa	MDHHS	Dirk Pohlmann	Bay West
Saamih Bashir	Wood	Beth Flynn	Wood
Andrea Stawowy	Bay West	Bill Harmon	EGLE

The meeting via Skype. The meeting began at 0900 hours on 23 October 2019 and adjourned at 1037 hours. The meeting agenda is attached and posted to the Bay West Collaborative Website.

INTRODUCTION

D. Medina opened the meeting with a greeting and introductions. The meeting purpose was to discuss environmental restoration program work at former Wurtsmith AFB.

25 September 2019 BCT Review

The 25 September 2019 BCT Meeting Minutes were sent to EGLE on 20 October and are still being reviewed by EGLE. EGLE will submit comments by 28 October 2019, the Meeting Minutes will be updated accordingly and then posted to the Collaborative Website.

NOTE: B. Place submitted EGLE comments on the 25 September 2019 BCT Minutes to A. Stawowy on 25 October 2019, and they were posted to the Collaborative Website.

The action items were discussed:

EGLE

- EGLE Expanded Site Inspection (ESI) Work Plan approval. B. Place sent the Air Force EGLE's concurrence letter for the Draft SSI Work Plan Addendum for PFOA and PFOS Release Response, dated May 2018, on 22 October 2019.
- B. Place stated that EGLE has committed to having all documents reviewed in the next 90 days.
- EGLE Water Resources Division (WRD) to provide results from 21 August 2019 Split Sampling event. Air Force data was submitted by Bay West on 25 September 2019. EGLE WRD will incorporate the results into the report. M. Siler will send out a letter and a copy of the report when it is finished, within the next month.
- Wood - Resend last set of transducer data to EGLE. S. Bashir stated that Wood downloaded more data on 5 October 2019, and it is being processed. He will submit it to the team today, the submittal will include all the transducer data.

DOCUMENT SUBMISSION SCHEDULE

Bay West

- Draft 2017 LTM and 2018 Annual Reports, Draft 2017 PTS Annual Report, and Draft Five-Year Review Work Plan – EGLE to provide comments on all documents within the next 90 days as noted above.
- Draft 2017 and Draft 2018 Systems Annual Report – EGLE provided comments on 18 October 2019. Bay West is preparing RTCs for Air Force review.
- Draft 2018 PTS Annual Report will be submitted to the Air Force for review in November 2019.
- The Final SS-17 DGI Completion Report was submitted on 3 October. a Closure Memorandum will be submitted to the Air Force for review in October 2019.
- SS-57 ESD RTCs and Draft SS-72 Proposed Plan are in Air Force legal review.

Wood

- The 4th Private/Public Drinking Water Monitoring Report will be submitted to the Air Force in November. Samples were collected in October. After Air Force approval, the report will be submitted to EGLE. 15 of the 25 locations have been connected to the municipal water supply. 10 private wells and the 2 public wells are on the Quarterly sampling schedule, the last round of sampling is scheduled for January 2020. Wood will submit the data to A. Mussa, and B. Place will get it from him. M. Weegar stated that near the end of June 2019 a letter was sent to Sue Leeming with the private well sampling trend analysis results. A. Mussa stated that would be helpful, he would also like the same submittal as he received in the first two quarters. B. Place requested the data for all the analytes. D. Medina stated that this data will be provided.
- Draft ESI report will be submitted to the Air Force on 30 October 2019 and EGLE on 31 December 2019.

FIELD WORK UPDATE AND SCHEDULE

FT-02 Carbon Change out – The last GAC change out was completed on 23 August 2019 and was the 17th change out for the system, 120 operational days since the last change out. The next tentative date for GAC change out is the week of 18 November. Actual change out date will be based on analytical results obtained during weekly sampling events immediately prior to the change out event.

LF30-PW7 – is currently off. The replacement well is being installed this week. There is no Work Plan or Report for this work, only the specifications that were submitted to licensed drilling firms for bidding. The well will be replaced with “like with like”, meaning well depth, screen length, etc. for the replacement well will be the same as the original well. The replacement well will be installed near the existing well and electrical and plumbing for LF30-PW7 will be rerouted to the new well. Information regarding this work will be summarized in the 2019 Systems Report. In advance of this report, Bay West will submit the well log and well construction details to EGLE after the Air Force has an opportunity to review and approve.

SS-57 RAWP Implementation – This first injection took place today; injections in all three trenches will be completed by the end of the week. After the first injection event is 100% complete a RA-C Report will be prepared for Air Force review and approval, followed by the same for EGLE.

FT-02 RAWP Implementation - Field work is on hold pending an Air Force decision regarding the final disposition of the concrete pad after demo work is complete. The Air Force published a new guidance document regarding AFFF IDW management. Bay West is currently getting pricing for transportation and disposal at a Subtitle D or a Subtitle C landfill for the concrete. B. Place asked if EGLE can receive a copy of the new AFFF IDW guidance document. D. Medina will check with management. The guidance has been signed, and its Air Force guidance, not BRAC specific.

2019 Annual Groundwater sampling – Annual sampling started on 6 May 2019 and was completed on 18 October 2019, Sites completed include: FT-02, LF-27, LF-30/31, OT-16, OT-24, SS-06, SS-21, SS-57 and SS-72.

2019 Annual Groundwater gauging event – is scheduled for the week of 11 November 2019.

Wood Field Work– The 10 wells in the private/public sampling program will be sampled one more time, January 2020. The 16 transducers will remain in place and continue to collect data until the Air Force gives direction for their removal.

B. Place stated there is a VI meeting scheduled for next week. She asked when the decision tree/flow chart will be available. S. Bashir stated that it will be submitted before Friday.

AIR FORCE UPDATES

PFOA/PFOS Analytical Requirements – impact to EGLE QA/QC sampling – Seb Gillette with AFCEC/CZTE will join the call for this topic.

RAB Update – The next RAB meeting will be scheduled in conjunction with the completion of the MSPTS Resin treatment system installation/start-up (scheduled for December 2019), or possibly in January 2020. B. Place stated that EGLE needs to know the RAB meeting date as they are scheduling meetings with different Communities for 6 December. These will not be open to the public. EGLE will be holding smaller one on one meetings with AuSable and Oscoda Townships; the townships requested the meetings one week prior to the RAB. To date, the EGLE transducer study shows the hydrology is consistent with the USGS model; however, this study is still under review at EGLE. EGLE does not have evidence that the contamination from the Base is going under Van Etten Lake. The community is also interested in the source of contamination on the east side of Van Etten Lake. Need Our Water (NOW) group will submit their questions to EGLE prior to the next meeting.

A. Mussa said the Health Department is considering doing a health study in the area. MDHHS's plans on discussing this study with the public in early 2020. M. Weegar and A. Mussa discussed the details of the health study. MDHHS is going to start with the community and subject matter expert, this may not only be a drinking water exposure study as the deer and fish are also potential sources of exposure. D. Medina asked if part of the planning would be a health questionnaire and a work history. If so, the Air Force would be interested in receiving a copy. B. Place asked A. Mussa if he would be able to share documents with the Air Force as they became available. A. Mussa stated MDHHS will provide the Air Force with the documents and information upon approval of MDHHS management.

VI Update – A VI meeting is scheduled for 29 October at 1300 EST.

Central Treatment System (CTS) Status – Operating as normal. A. Stawowy stated the Intermediate 2 PFOA/PFOS data remains non-detect. There is no update on the greensand filter.

Mission Street (MS) Treatment Plant Status- The building is currently under construction.

WSA DRC's – Bill Harmon joined for this section of the call. Bill Harmon and John Ussery were in communication regarding data and information previously collected at the WSA. A follow up call will be scheduled once all the data is gathered. D. Medina is the contact for any questions on the WSA DRCs.

Office Business- D. Medina is the interim BEC with the Air Force is looking for a permanent BEC to replace Matt Marrs. D. Medina will still be involved once a new BEC is named. B. Place and D. Medina will set up a call to discuss the new PBR contract and the JEP. A site walk is not planned as part of the new Contract acquisition effort.

B. Place asked about the joint RAB presentations and VI update, and if the Air Force would be interested in a quick high-level conceptual site model, stating what contamination is from the Base and what is not, based on the information collected to date. D. Medina said yes, co-presentations are good, but the Air Force is still building the agenda.

LF-30/31 FFS Status – EGLE has submitted comments to the Air Force on the draft, L. Major and M. Weegar have not seen EGLE comments or responses.

PFOA/PFOS Analytical Requirements – impact to EGLE QA/QC sampling – Seb Gillette with AFCEC/CZTE joined the call. B. Place stated that EGLE ran Method 537 Modified but didn't ask the lab to follow the Air Force QSM 5.3 Table B15. An agreement has to be determined for the relative percent difference of EGLE and Air Force QA ("split") samples. When collecting samples for QA of Air Force work, B. Place wants to mimic the Air Force method to make sure there is a purpose for the samples and know exactly what EGLE will do with the data. B. Place would like to determine a percent range moving forward and EGLE will follow QSM 5.3 Table B15 when collecting samples for this purpose. B. Place and Air Force should agree to determining a data quality objective and setting acceptance criteria prior to sample collection. There was a discussion of whether this would pertain to all divisions within EGLE. B. Place will follow up with the WRD, as they might have had additional reasons for the split sampling event on 21 August 2019. C. Bauer stated that as long as EGLE has QA/QC to provide and compare the results that is all that is needed. The purpose is to determine if the discharge meets the permit. M. Weegar explained that different methods could produce different results. C. Bauer stated there are bigger problems than the sampling analysis, the data needs to be evaluated first. In summary, in the future, when collecting samples for QA of Air Force data under the DSMOA, EGLE will agree to determining a data quality objective and setting acceptance criteria prior to sample collection

EGLE PFOA and PFOS UPDATE

Transducer update – A preliminary memorandum has been drafted by EGLE contractor, EGLE is reviewing.

Field work – EGLE will be resampling the wells from previous EGLE investigations and is evaluating the data, another round of sampling might be completed in January 2020. A. Karg stated 20 wells in the Colbath, Loud Dr, and River Road area were sampled, surface water samples were also collected.

Kings Corner Road Dump – A. Armbruster stated two more residential wells in the Kings Corner Dump area were sampled, and results were below criteria. EGLE received Oscoda Townships Financial Documentation and it stated the Township is not able to fund an investigation. Oscoda Township will be seeking State Aid.

Next Meetings:

VI – 29 October 2019

BCT – 20 November 2019 0900-1200 EST

SRD - will be scheduled after the next CTS GAC change out.

RAB – In December 2019 with the start of up MS. Meeting might be moved to January because of holidays.

ACTION ITEMS:

- EGLE
 - Provide comments or approval of documents submitted for review in accordance with the schedule included in these meeting minutes.
- Air Force
 - D. Medina ask Air Force management if EGLE can get a copy of the new AFFF IDW guidance document.

AGENDA
BRAC Cleanup Team
Teleconference
23 October 2019, 0900 EST

Item	Time
<p>25 September 2019 BCT Review</p> <ul style="list-style-type: none"> • Comments to 25 September 2019 BCT Meeting Minutes. • Action Items: • EGLE <ul style="list-style-type: none"> • Approve Expanded Site Inspection (ESI) Work Plan via letter. EGLE will provide comments before 15 October 2019. • Provide comments or approval of other documents submitted for review in accordance with the schedule submitted. • Provide results from split sampling event to the Air Force. • Bay West <ul style="list-style-type: none"> • Submit the split sampling results to EGLE. Note, this data was submitted on 25 September. • Wood <ul style="list-style-type: none"> • Resend last set of transducer data to EGLE. 	9:00
<p>Document Submission Schedule and Status</p> <ul style="list-style-type: none"> • Annual Reports <ul style="list-style-type: none"> ○ Draft 2017 LTM Report submitted to EGLE on 21 November 2018. EGLE to provide comments before 15 November 2019. ○ Draft 2017 Systems Report submitted to the EGLE on 30 January 2019. EGLE provided comments on 18 October 2019. ○ Draft 2017 PTS Report submitted to EGLE on 5 March 2019. EGLE to provide comments before 15 November 2019. ○ Draft 2018 LTM Report submitted to EGLE on 4 April 2019. EGLE to provide comments before 15 November 2019. ○ Draft 2018 Systems Report – submitted to EGLE on 1 August 2019. EGLE provided comments on 18 October 2019. ○ Draft 2018 PTS Report – Draft scheduled for submittal to Air Force in November. ○ Draft SS-17 DGI Completion Report – Report finalized 3 October 2019. A Closure Memo will be drafted. ○ Draft Five-Year Review Work Plan - submitted to the EGLE on 26 February 2019. EGLE to provide comments before 15 October 2019. • SS-57 – Air Force Legal has determined ESD will be prepared. RTCs to Air Force Legal comments at Air Force for review. • Draft SS-072 Proposed Plan – pending. • Five-Year Review – Covers 30 May 2014 through 30 May 2019. Will be submitted to the Air Force for review in November 2019. • The 4th Private/Public Drinking Water Monitoring Report will be submitted in November to the Air Force for review. • The Draft ESI report will be submitted 30 October for Air Force review. 	9:30
<p>Field Work Update and Schedule</p> <ul style="list-style-type: none"> • FT-02 Carbon change out event was completed on 23 August. (120 operational days since the last change out) next change-out event tentatively scheduled for the week of 18 November. • LF-30/31 purge well PW-7 has failed as sand intrusion is occurring. A replacement well is being installed this week. • SS-57 RAWP Implementation – GPR and DGI investigation completed 3-7 June. <ul style="list-style-type: none"> IAB Trench installation –3-7 September Performance monitoring well installation – completed 23-27 September Baseline/Annual sampling – completed 7-15 October First Injection is being completed this week. • FT-02 RAWP Implementation – Pending. Air Force evaluating options and costs for temporary concrete storage on-site that will allow the VOC remedy to proceed. Correspondence submitted to Air Force with approach and budgetary cost estimate. 	10:00

<ul style="list-style-type: none"> • 2019 annual groundwater sampling began in May. Sites completed: FT-02, LF-27, LF-30/31, OT-16, OT-24, SS-06, SS-21, and SS-72. All sites were completed on 18 October 2019. • 2019 annual groundwater gauging event scheduled for the week of 11 November 2019. • Wood Field Work Update – Groundwater model update and Draft ESI Preparation. Private well and monitoring well analytical results from June sampling event have been validated. Letters to homeowners will be sent by 30 October. Continuing transducer data collection until requested to be removed by the Air Force. Only transducer data collected through August 2019 will be included in the ESI report. Fifteen (15) residence out of the 25 under the private DW well monitoring were connected to municipal water system (the entire Van Etten Dam and Forest Street). 	
<p>Air Force Updates</p> <ul style="list-style-type: none"> • PFOA/PFOS Analytical Requirements – impact to EGLE QA/QC sampling • RAB Updates • VI Update – Meeting on 29 October • Central GAC Treatment Plant Status • Mission Street Treatment Plant Status • WSA DRC's • Office Business • LF-30/31 FFS Status 	10:30
<p>EGLE PFOA & PFOS Update</p> <ul style="list-style-type: none"> • Transducer Data Update • Field work and sampling results. • Kings Corner Road Dump 	11:00
<p>Schedule Next BCT Meeting:</p> <ul style="list-style-type: none"> • Date, time, and location. 	11:30

BRAC PBR/Bay West Document Tracker			AFCEC DRAFT		AFCEC FINAL		EGLE DRAFT		EGLE DRAFT FINAL		FINAL	
Project site	Report Title	Task Summary	Submission date	Comments received date	RTC Submission date	RTC aproved date	Submission date	Comments received date	RTC Submission date	RTC aproved date	Submission date	Notes
VI	Volatilization to Indoor Air Pathway and Data Gap Investigation Work Plan			20-Dec-16	17-Jan-17							Draft VI WP pending submission to AFCEC
2017 LTM RAO AR	2017 Annual Remedial Action Operation Report for Installation Restoration Program Sites LF-27, OT-16, SS-05, SS-08, SS-51, SS-71, SS-72, ST-68, ST-69, and WP-04	Draft 2017 LTM annual report	15-May-18	3-Oct-18	6-Nov-18	16-Nov-18	21-Nov-18					Submitted draft for EGLE review 21-Nov-18
2017 PTS RAO AR	2017 Annual Remedial Action Operation Report for Arrow Street, Benzene Plant, and Mission Street Pump and Treat Systems	Draft 2017 PTS annual report	13-Dec-18	24-Jan-19	14-Feb-19	4-Mar-19	5-Mar-19					Submitted draft for EGLE review 5-Mar-19
2017 SYS RAO AR	2017 Annual Remedial Action Operation Report for Installation Restoration Program Sites FT-02, LF-30/31, and SS-57	Draft 2017 SYS annual report	7-Nov-18	7-Jan-19	14-Jan-19	no comments	30-Jan-19	18-Oct-19				Submitted draft for EGLE review 30Jan19
FT-02	Remedial Action Work Plan for VOCs, Former Fire Training Area - IRP Site FT-02	Draft IAB Work plan	30-Aug-16	20-Dec-16	3-Jan-17	20-Dec-16	31-Jan-17	6-Mar-17	28-Apr-17	15-Jun-17	7-Jun-17	final
SS-57	Remedial Action Work Plan, Refueling Hydrant/Base Operational Apron, IRP Site SS-57	Draft IAB Work plan	23-Mar-18	12-Apr-18	25-May-18	1-Jun-18	8-Jun-18	1-Nov-18	27-February-19 Follow on Comments 26-April-19	13-Jun-19	14-Jun-19	final
SS-17	Data Gap Investigation Report, Installation Restoration Program Site SS-17	Draft DGI Report	10-Jan-19	21-Jan-19	4-Feb-19	25-Feb-19	27-Feb-19	1-Oct-19	10/2/2019		10/3/19	EGLE Comments did not require any changes to the report
SS-72	Proposed Plan for Spill Site 72	Draft Proposed Plan	2/22/2019 AFCEC Tech. 4/8/19 AFCEC Legal	PR on 3/25/19 MW on 3/29/19 AFCEC Legal on 5/23/19	PR on 3/28/19 MW on 4/5/19 AFCEC Legal on 06/04/19	PR on 3/29/19 MW on 04/05/19 AFCEC Legal on						Proposed Plan under AFCEC Legal Review
SS-72	Record of Decision for Spill Site 72	Draft ROD										ROD under internal review
SS-72	Remedial Action Work Plan for IRP Site SS-72	Draft RAWP										RAWP under development
SS-57	Explanation of Significant Differences, Refueling Hydrant/Base Operational Apron, IRP Site SS-57	Draft IAB Explanation of significant difference	9-Feb-18	23-May-18	1-Oct-18							SS-57 ESD AFCEC Legal RTCs submitted to AF 01Oct18, revised RTC format 28Jan19
2018 LTM RAO AR	2018 Annual Remedial Action Operation Report for Installation Restoration Program Sites LF-27, OT-16, SS-05, SS-08, SS-51, SS-71, SS-72, ST-68, ST-69, and WP-04	Draft Base wide Annual LTM RA-O report	28-Feb-19	19-Mar-19	3/28/2019	28-Mar-19	4-Apr-19					Submitted draft for EGLE review 4-April-2018
2018 PTS RAO AR	2018 Annual Remedial Action Operation Report for Arrow Street, Benzene Plant, and Mission Street Pump and Treat Systems	Draft Annual PTS RA-O report	document under draft development									Under Development
2018 SYS RAO AR	2018 Annual Remedial Action Operation Report for Installation Restoration Program Sites FT-02, LF-30/31, and SS-57	Draft Annual Systems RA-O report	22-May-19	16-Jul-19	25-Jul-19	25-Aug-19	1-Aug-19	18-Oct-19				Air Force comments received on 16-Jul-19
2018 LUC/IC AR	2018 LUC/IC Report	Draft 2018 LUC/IC annual report	document under draft development									Under Development
2019 SYR WP	Work Plan for the Fourth Five-Year Review	Work Plan Preparation	25-Jan-19	1/29/2019 (PR) & 2/7/2019 (MW)	15-Feb-19	25-Feb-19	26-Feb-19					Submitted draft for EGLE review 26-Feb-19
2019 SYR	Fourth Five-Year Review	Review Report Preparation	document under draft development									Under Development
WP-04 Work Plan			31-May-19	05-Aug-19	18-Sep-19							Combined OES Work Plan for both WP-04 and SS-08 sites. Provide to EGLE as a FYI only.
SS-08 OES Work Plan			31-May-19	05-Aug-19	18-Sep-19							