



Photo 3 – BGMW01 after .56' of PVC was removed from casing.



Photo 4 – BGMW02 on arrival to collect water level and total depth.



Photo 5 – BGMW02 being unable to close due to the height of the PVC casing.



Photo 6 – BGMW02 after .2' of casing was removed.

**DAILY QUALITY CONTROL REPORT - 049**

Date - 5/18/2018

	S	M	T	W	Th	F	S
Weather						Rainy	
Temp						50/60 F	
Wind						10 MPH	
Humidity						92%	

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks
Demolition Saw
HSA Drill Rig

Work Performed: (onsite – 0800; offsite – 1430)

H&S Meeting – including general site safety and equipment safety
Mobilize to site for the day.
Complete installation of 21B-BPA-UGIA-MW01 and 21B-BPA-LGIA-MW02.
Demobilize from site for the day.

**DAILY QUALITY CONTROL REPORT - 049**

PROJECT: Cornhusker Army Ammunition Plant
CONTRACT NUMBER: AT3001.

Date - 5/18/2018

Quality Control Activities (including field calibrations):

None conducted today

Health and Safety Level Activities / Field Staff on Site:

Staff – Stuart Cameron, Xavier Chagolla, and Brant Hylinski of ATI, and James Tinnell and Roy Hopkins of GSI.

H&S Meeting – No new crew members or activities were introduced to the agenda, so a standard daily tailgate meeting was conducted. The main topic was dealing with the inclement weather and thunderstorms.

Problems Encountered/Corrective Action Taken/Comments:

Lightening in the area caused frequent work stoppage and navigating the mud was a challenge. The crew mobilized to the office once the drillers felt the conditions were too poor to safely continue.

Special Notes

Signature: Stuart Cameron

Title: Engineer

**DAILY QUALITY CONTROL REPORT - 050**

Date - 5/19/2018

	S	M	T	W	Th	F	S
Weather							Rainy
Temp							45/55 F
Wind							17 MPH
Humidity							92%

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks
Water Tank
Waterra Pump
Proactive Pump
Water Quality Meters (2)
Turbidity Meters (2)

Work Performed: (onsite – 0800; offsite – 1430)

H&S Meeting – including general site safety and equipment safety
Mobilize to site for the day.
Develop wells 21B-DS-LGIA-MW01, 21B-DS-LGIA-MW02, 21B-BB-UGIA-MW01, and 21B-BB-LGIA-MW02.
Discard development water at USACE Treatment System.
Demobilize from site for the day.

**DAILY QUALITY CONTROL REPORT - 050**

PROJECT: Cornhusker Army Ammunition Plant
CONTRACT NUMBER: AT3001.

Date - 5/19/2018

Quality Control Activities (including field calibrations):

Calibrated Water Quality Meters and Turbidity Meters.

Health and Safety Level Activities / Field Staff on Site:

Staff – Stuart Cameron, Xavier Chagolla, and Brant Hylinski of ATI, and James Tinnell and Roy Hopkins of GSI.

H&S Meeting – No new crew members or activities were introduced to the agenda, so a standard daily tailgate meeting was conducted. The main topic was dealing with the inclement weather and potential thunderstorms.

Problems Encountered/Corrective Action Taken/Comments:

Although there was no lightning in the area to cause work stoppage, the heavy rain in the morning made navigating the mud a challenge. The crew assessed routes prior to vehicle mobilization and wells that were deemed accessible were selected for development.

Special Notes

Signature: Stuart Cameron

Title: Engineer

**DAILY QUALITY CONTROL REPORT - 051**

Date - 5/20/2018

	S	M	T	W	Th	F	S
Weather	Overcast						
Temp	50/65 F						
Wind	10 MPH						
Humidity	91%						

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks
Track HSA Rig (for vehicle recovery in muddy conditions)
Water Tank
Waterra Pump
Proactive Pump
Water Quality Meters (2)
Turbidity Meters (2)

Work Performed: (onsite – 0800; offsite – 1730)

H&S Meeting – including general site safety and equipment safety
Mobilize to site for the day.
Develop wells 21B-DS-LGIA-MW03, 21B-DS-LGIA-MW04, 21B-BPA-LGIA-MW05, and 21B-BPA-UGIA-MW06.
Discard development water at USACE Treatment System.
Collect groundwater levels and total depths at ten Tract 21C wells.
Demobilize from site for the day.

**DAILY QUALITY CONTROL REPORT - 051**

PROJECT: Cornhusker Army Ammunition Plant
CONTRACT NUMBER: AT3001.

Date - 5/20/2018

Quality Control Activities (including field calibrations):

Calibrated Water Quality Meters and Turbidity Meters.

Health and Safety Level Activities / Field Staff on Site:

Staff – Stuart Cameron, Xavier Chagolla, and Brant Hylinski of ATI, Alex Hedgepath of HGL, and James Tinnell and Roy Hopkins of GSI.

H&S Meeting – No new crew members or activities were introduced to the agenda, so a standard daily tailgate meeting was conducted. The main topic was dealing with the inclement weather muddy conditions.

Problems Encountered/Corrective Action Taken/Comments:

The remote BPA wells in Tract 21B were extremely difficult to reach in the trucks due to the wet and muddy conditions. Consequently, the track mounted HSA was utilized to assist vehicles via tow-rope through particularly soft terrain.

Special Notes

Future work being conducted in areas such as the BPA may present issues for personnel, especially once GSI's track mounted vehicle is not available. Traveling by foot could be the only way to reach certain wells in wet conditions, and this introduces safety concerns associated with the burden of carrying heavy equipment/coolers/IDW through unstable terrain.

Signature: Stuart Cameron

Title: Engineer

**DAILY QUALITY CONTROL REPORT - 052**

Date - 5/21/2018

	S	M	T	W	Th	F	S
Weather		Sunny					
Temp		55/75F					
Wind		5MPH					
Humidity		M					

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks
Track HSA Rig (for vehicle recovery in muddy conditions)
Water Tank
Waterra Pump
Proactive Pump
Water Quality Meters (2)
Turbidity Meters (2)
Water Level Meter (2)
QED 1.75" and associated controller

Work Performed: (onsite – 0800; offsite – 1700)

H&S Meeting – including general site safety and equipment safety
Mobilize to site for the day.
Develop wells remaining 2 wells at Tract 21B (10/10 developed).
Discard development water at USACE Treatment System.
Collect groundwater samples from 5 wells at Tract 21C to be analyzed for VOCs and Explosives.
Ship collected samples to Katahdin Analytical Laboratories via FedEx.
Demobilize from site for the day.

**DAILY QUALITY CONTROL REPORT - 052**

Date - 5/21/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated Water Quality Meters and Turbidity Meters.

Health and Safety Level Activities / Field Staff on Site:

Staff – Stuart Cameron, Xavier Chagolla, and Brant Hylinski of ATI, Alex Hedgepath of HGL, and James Tinnell, Matt Wold, and Roy Hopkins of GSI.

H&S Meeting – No new crew members or activities were introduced to the agenda, so a standard daily tailgate meeting was conducted. The main topic was muddy conditions.

Problems Encountered/Corrective Action Taken/Comments:

The remote BPA wells in Tract 21B were extremely difficult to reach in the trucks due to the wet and muddy conditions. Consequently, the track mounted HSA was utilized to assist vehicles via tow-rope through particularly soft terrain.

Special Notes

Future work being conducted in areas such as the BPA may present issues for personnel, especially once GSI's track mounted vehicle is not available. Traveling by foot could be the only way to reach certain wells in wet conditions, and this introduces safety concerns associated with the burden of carrying heavy equipment/coolers/IDW through unstable terrain.

Signature: Alex Hedgepath

Title: Associate Geologist

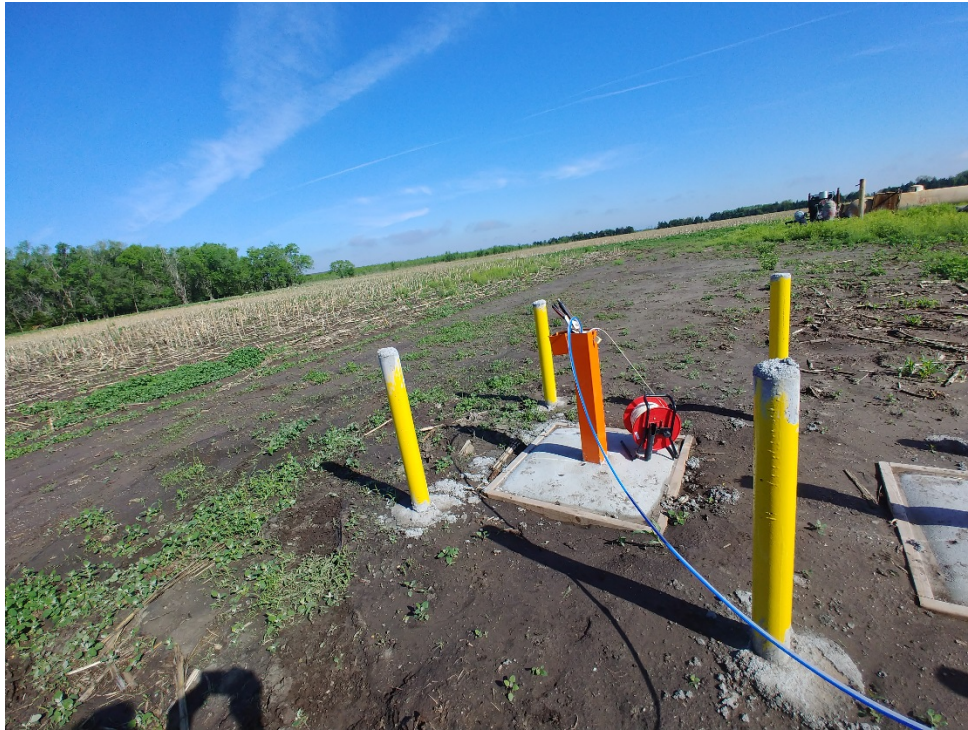


Photo 1 – Groundwater sampling in progress at Tract 21C.



Photo 2 – Groundwater sampling equipment set up on the truck tailgate during groundwater sampling at Tract 21C.

**DAILY QUALITY CONTROL REPORT - 053**

Date - 5/22/2018

	S	M	T	W	Th	F	S
Weather			Sunny				
Temp			60-80F				
Wind			5MPH				
Humidity			H				

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks
Water Quality Meter
Turbidity Meter
Water Level Meter
QED 1.75" and associated controller
Skidsteer

Work Performed: (onsite – 0800; offsite – 1400)

H&S Meeting – including general site safety and equipment safety
Mobilize to site for the day.
Conduct surface completion at 10 wells at Tract 21B.
Collect groundwater samples from 2 wells at Tract 21C to be analyzed for VOCs and Explosives.
Ship collected samples to Katahdin Analytical Laboratories via FedEx.
Collect water levels in preparation for the groundwater sampling event at Tract 20B and BKRD-3.
Demobilize from site for the day.



DAILY QUALITY CONTROL REPORT - 053

PROJECT: Cornhusker Army Ammunition Plant

Date - 5/22/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated Water Quality Meter and Turbidity Meter.

Health and Safety Level Activities / Field Staff on Site:

Staff – Stuart Cameron, Xavier Chagolla, and Brant Hylinski of ATI, Alex Hedgepath of HGL, and James Tinnell, Matt Wold, and Roy Hopkins of GSI.

H&S Meeting – No new crew members or activities were introduced to the agenda, so a standard daily tailgate meeting was conducted.

Concrete truck/driver was onsite from 930-1130.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

None.

Signature: Alex Hedgepath

Title: Associate Geologist

**DAILY QUALITY CONTROL REPORT - 054**

Date - 5/23/2018

	S	M	T	W	Th	F	S
Weather				Sunny			
Temp				70-80F			
Wind				5MPH			
Humidity				M			

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks

Water Quality Meter

Turbidity Meter

Water Level Meter

QED 1.75" and associated controller

Work Performed: (onsite – 0700; offsite – 1130)

H&S Meeting – including general site safety and equipment safety

Mobilize to site for the day.

Collect groundwater samples from 3 wells at Tract 21C to be analyzed for VOCs and Explosives.

Ship collected samples to Katahdin Analytical Laboratories via FedEx.

Demobilize from site for end of shift.

**DAILY QUALITY CONTROL REPORT - 054**

PROJECT: Cornhusker Army Ammunition Plant

Date - 5/24/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated Water Quality Meter and Turbidity Meter.

Health and Safety Level Activities / Field Staff on Site:

Staff – A. Hedgepath (HGL)

H&S Meeting –Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

GW Sampling at Tract 21C is completed.

Signature: Alex Hedgepath

Title: Associate Geologist

**DAILY QUALITY CONTROL REPORT - 055**

Date - 5/30/2018

	S	M	T	W	Th	F	S
Weather				Sunny			
Temp				65-80F			
Wind				10MPH			
Humidity				M			

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks

Water Quality Meter

Turbidity Meter

Water Level Meters

QED 1.75" and associated controller

Work Performed: (onsite – 1000; offsite – 1700)

H&S Meeting – including general site safety and equipment safety

Mobilize to site for the day.

Collected water levels from 32 monitoring well locations at Tract 21B and Background Area 1 (BKRD-1).

Collect groundwater samples from 2 wells at Background Area 3 (BKRD-3) to be analyzed for VOCs, PAHs, Explosives, Metals, Dissolved Metals, and CrVI.

Ship collected samples to Katahdin Analytical Laboratories via FedEx.

Demobilize from site for day.

**DAILY QUALITY CONTROL REPORT - 055**

PROJECT: Cornhusker Army Ammunition Plant

Date - 5/30/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated Water Quality Meter and Turbidity Meter.

Health and Safety Level Activities / Field Staff on Site:

Staff – A. Hedgepath (HGL); S. Cameron, B. Hylinksi, and X. Chagolla (ATI).

H&S Meeting –Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

Issues with shipment of field equipment order did not allow for all three groundwater sampling teams to begin collecting GW samples. One field team was able to collect samples. Equipment will arrive on site tomorrow morning to allow all field teams to begin sampling.

Special Notes

None.

Signature: Alex Hedgepath

Title: Associate Geologist



Photo 1 – Dirt placed near a MW at BKRD-1 prior to shift 6 mobilization. Presumably to act as a barricade to stop heavy equipment from running into well.

**DAILY QUALITY CONTROL REPORT - 056**

Date - 5/31/2018

	S	M	T	W	Th	F	S
Weather					Sunny		
Temp					65-85F		
Wind					10MPH		
Humidity					M		

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks

Water Quality Meters

Turbidity Meters

Water Level Meters

QED 1.75" and associated controllers

Work Performed: (onsite – 1000; offsite – 1700)

H&S Meeting – including general site safety and equipment safety

Mobilize to site for the day.

Collect groundwater samples from 4 wells at Background Area 3 (BKRD-3) to be analyzed for VOCs, PAHs, Explosives, Metals, Dissolved Metals, and CrVI.

Collect groundwater samples from 2 wells at Tract 20B to be analyzed for VOCs, PAHs, Explosives, Metals, and CrVI.

Ship collected samples to Katahdin Analytical Laboratories via FedEx.

Demobilize from site for end of day.

**DAILY QUALITY CONTROL REPORT - 056**

PROJECT: Cornhusker Army Ammunition Plant

Date - 5/31/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated Water Quality Meter and Turbidity Meter.

Health and Safety Level Activities / Field Staff on Site:

Staff – A. Hedgepath (HGL); S. Cameron, B. Hylinksi, and X. Chagolla (ATI).

H&S Meeting –Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

None.

Signature: Alex Hedgepath

Title: Associate Geologist

**DAILY QUALITY CONTROL REPORT - 057**

Date - 6/01/2018

	S	M	T	W	Th	F	S
Weather						Sunny	
Temp						70-90F	
Wind						15MPH	
Humidity						M	

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks

Water Quality Meters

Turbidity Meters

Water Level Meters

QED 1.75" and associated controllers

Work Performed: (onsite – 800; offsite – 1700)

H&S Meeting – including general site safety and equipment safety

Mobilize to site for the day.

Collect groundwater samples from 3 wells at Tract 20B to be analyzed for VOCs, PAHs, Explosives, and Metals.

Collect groundwater samples from 2 wells at Tract 21B-DS to be analyzed for VOCs, Explosives, and Metals.

Collect groundwater samples from 5 wells at Tract 21B-BPA to be analyzed for VOCs, Explosives, and Metals.

Ship collected samples to Katahdin Analytical Laboratories via FedEx.

Demobilize from site for end of day.



DAILY QUALITY CONTROL REPORT - 057

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/01/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated Water Quality Meters and Turbidity Meters.

Health and Safety Level Activities / Field Staff on Site:

Staff – A. Hedgepath (HGL); S. Cameron, B. Hylinski, and X. Chagolla (ATI).

H&S Meeting –Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

CrVI samples were not able to be collected due to short 24-hour hold times.

Sample collection from historic monitoring wells (those wells installed prior to this RI) was begun today.

Signature: Alex Hedgepath

Title: Associate Geologist



Photo 1 – Due to high temperatures, equipment was kept in the shade to prevent overheating.

**DAILY QUALITY CONTROL REPORT - 058**

Date - 6/02/2018

	S	M	T	W	Th	F	S
Weather							Sunny
Temp							65-75F
Wind							15 MPH
Humidity							M

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks

Water Quality Meters

Turbidity Meters

Water Level Meters

QED 1.75" and associated controllers

Work Performed: (onsite – 830; offsite – 1630)

H&S Meeting – including general site safety and equipment safety

Mobilize to site for the day.

Collect groundwater samples from 4 wells at Tract 19C to be analyzed for VOCs, PAHs, Explosives, and Metals.

Collect groundwater samples from 7 wells at Tract 21B-DS to be analyzed for VOCs, Explosives, and Metals.

Store samples in GSI office until shipping to Katahdin Analytical Laboratory on Monday.

Dispose of IDW at Groundwater Treatment Facility.

Demobilize from site for end of day.

**DAILY QUALITY CONTROL REPORT - 058**

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/02/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated Water Quality Meters and Turbidity Meters.

Health and Safety Level Activities / Field Staff on Site:

Staff – A. Hedgepath (HGL); S. Cameron, B. Hylinski, and X. Chagolla (ATI).

H&S Meeting –Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

None.

Signature: Alex Hedgepath

Title: Associate Geologist



Photo 1 – Sample bottles for Explosives and PAHs for a MS/MSD sample at Tract 19C.



Photo 2 – G0034 at 19C, which is not part of the Tract 19C sampling effort.

**DAILY QUALITY CONTROL REPORT - 059**

Date - 6/03/2018

	S	M	T	W	Th	F	S
Weather	Sunny						
Temp	60-80F						
Wind	5MPH						
Humidity	M						

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks

Water Quality Meter

Turbidity Meter

Water Level Meter

QED 1.75" and associated controller

Shovels

Work Performed: (onsite – 730; offsite – 1530)

H&S Meeting – including general site safety and equipment safety

Mobilize to site for the day.

Collect groundwater samples from 5 wells at Tract 19C to be analyzed for VOCs, PAHs, Explosives, and Metals.

Store samples in GSI office until shipping to Katahdin Analytical Laboratory on Monday.

Dispose of IDW at Groundwater Treatment Facility.

Reset loose bollards at Tract 20B using shovels and cement.

Demobilize from site for end of day.

**DAILY QUALITY CONTROL REPORT - 059**

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/03/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated Water Quality Meters and Turbidity Meters.

Health and Safety Level Activities / Field Staff on Site:

Staff – A. Hedgepath (HGL); S. Cameron, B. Hylinski, and X. Chagolla (ATI).

H&S Meeting –Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

None.

Signature: Alex Hedgepath

Title: Associate Geologist



Photo 1 – Sampling at Tract 19C, MW G0008, near the retention ponds between Tracts 21B and 19C.

**DAILY QUALITY CONTROL REPORT - 060**

Date - 6/04/2018

	S	M	T	W	Th	F	S
Weather		Sunny					
Temp		60-80F					
Wind		15MPH					
Humidity		M					

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks

Water Quality Meters

Turbidity Meters

Water Level Meters

QED 1.75" and associated controllers

Work Performed: (onsite – 1030; offsite – 1700)

H&S Meeting – including general site safety and equipment safety

Mobilize to site for the day.

Collect groundwater samples from 3 wells at Tract 20B to be analyzed for VOCs, PAHs, Explosives, CrVI, and Metals.

Collect groundwater samples from 4 wells at Background Area 1 (BKRD-1) to be analyzed for VOCs, PAHs, Explosives, CrVI, Dissolved Metals, and Metals.

Ship samples collected over the weekend as well as the samples collected today to Katahdin Analytical Lab.

Dispose of IDW at Groundwater Treatment Facility.

Demobilize from site for end of day.



DAILY QUALITY CONTROL REPORT - 060

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/04/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated Water Quality Meters and Turbidity Meters.

Health and Safety Level Activities / Field Staff on Site:

Staff – A. Hedgepath (HGL); S. Cameron, B. Hylinski, and X. Chagolla (ATI).

H&S Meeting –Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

GW monitoring at Tract 20B has been completed.

Herbicides were being sprayed on musk thistle near/on Tract 19B stockpiles by the Central Platte NDR; so the gate to Tract 19B was open when field staff arrived and departed from site.

Signature: Alex Hedgepath

Title: Associate Geologist

**DAILY QUALITY CONTROL REPORT - 061**

Date - 6/05/2018

	S	M	T	W	Th	F	S
Weather			Sunny				
Temp			70-80F				
Wind			10MPH				
Humidity			M				

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks
Water Quality Meters
Turbidity Meters
Water Level Meters
QED 1.75" and associated controllers

Work Performed: (onsite – 1030; offsite – 1700)

H&S Meeting – including general site safety and equipment safety
Mobilize to site for the day.
Collect groundwater samples from 4 wells at Background Area 1 (BKRD-1) to be analyzed for VOCs, PAHs, Explosives, CrVI, Dissolved Metals, and Metals.
Collect groundwater samples from 3 wells at Background Area 3 (BKRD-3) to be analyzed for VOCs, PAHs, Explosives, CrVI, Dissolved Metals, and Metals.
Ship samples collected today to Katahdin Analytical Lab via FedEx.
Dispose of IDW at Groundwater Treatment Facility.
Demobilize from site for end of day.



DAILY QUALITY CONTROL REPORT - 061

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/05/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated Water Quality Meters and Turbidity Meters.

Health and Safety Level Activities / Field Staff on Site:

Staff – A. Hedgepath (HGL); S. Cameron, B. Hylinski, and X. Chagolla (ATI).

H&S Meeting –Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

Herbicides were being sprayed on musk thistle near/on Tract 19B stockpiles by the Central Platte NDR; so the gate to Tract 19B was open when field staff arrived and departed from site.

Signature: Alex Hedgepath

Title: Associate Geologist

**DAILY QUALITY CONTROL REPORT - 062**

Date - 6/06/2018

	S	M	T	W	Th	F	S
Weather				Sunny			
Temp				70-80F			
Wind				5MPH			
Humidity				H			

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks
Water Quality Meters
Turbidity Meters
Water Level Meters
QED 1.75" and associated controllers

Work Performed: (onsite – 0930; offsite – 1500)

H&S Meeting – including general site safety and equipment safety
Mobilize to site for the day.
Collect groundwater samples from 1 well at Background Area 3 (BKRD-3) to be analyzed for VOCs, PAHs, Explosives, CrVI, Dissolved Metals, and Metals.
Collect groundwater samples from 2 wells at Background Area 1 (BKRD-1) to be analyzed for VOCs, PAHs, Explosives, CrVI, Dissolved Metals, and Metals.
Collect groundwater sample from 1 well at 21B-BPA to be analyzed for VOCs, Explosives, and Metals.
Ship samples collected today to Katahdin Analytical Lab via FedEx.
Dispose of IDW at Groundwater Treatment Facility.
Demobilize from site for end of shift.

**DAILY QUALITY CONTROL REPORT - 062**

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/06/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated Water Quality Meters and Turbidity Meters.

Health and Safety Level Activities / Field Staff on Site:

Staff – A. Hedgepath (HGL); S. Cameron, B. Hylinski, and X. Chagolla (ATI).

H&S Meeting –Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

End of shift 6.

Signature: Alex Hedgepath

Title: Associate Geologist

**DAILY QUALITY CONTROL REPORT - 063**

Date - 6/11/2018

	S	M	T	W	Th	F	S
Weather		Sunny					
Temp		75-80F					
Wind		5 MPH					
Humidity		H					

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks

Geoprobe 6620DT

Hand Augur

Work Performed: (onsite – 0930; offsite – 1600)

H&S Meeting – including general site safety and equipment safety

Mobilize to site for the day.

Collect subsurface soil samples from 18/20 locations at Tract 19B to be analyzed for SPLP Metals and SPLP Explosives.

Ship samples collected today to Katahdin Analytical Lab via FedEx.

Demobilize from site for end of day.

**DAILY QUALITY CONTROL REPORT - 063**

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/11/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Check stakes at Tract 19B to verify sample locations

Health and Safety Level Activities / Field Staff on Site:

Staff – A. Hedgepath (HGL); S. Cameron and B. Hylinski (ATI); J. Tinnell, M. Wold, R. Hopkins, and B. Petty (GSI)

H&S Meeting –Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

High temperatures and humidity slowed down work during the afternoon. Frequent breaks were taken in the shade along with water breaks.

Signature: Alex Hedgepath

Title: Associate Geologist

**DAILY QUALITY CONTROL REPORT - 064**

Date - 6/12/2018

	S	M	T	W	Th	F	S
Weather			Sunny				
Temp			75-80F				
Wind			5 MPH				
Humidity			H				

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks

Geoprobe 6620DT

PID

CME AT-55

Work Performed: (onsite – 0630; offsite – 1600)

H&S Meeting – including general site safety and equipment safety

Mobilize to site for the day.

Collect subsurface soil samples from 2 (20/20) locations at Tract 19B to be analyzed for SPLP Metals and SPLP Explosives.

Collect subsurface soil samples from 14/25 locations at Tract 19C to be analyzed for a select list of Explosives and Metals.

Install UGIA-MW03 and LGIA-MW04 at Tract 19C.

Ship samples collected today to Katahdin Analytical Lab via FedEx.

Demobilize from site for end of day.



DAILY QUALITY CONTROL REPORT - 064

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/12/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Verify sample and drilling locations before breaking ground.

Health and Safety Level Activities / Field Staff on Site:

Staff – A. Hedgepath (HGL); S. Cameron and B. Hylinski (ATI); J. Tinnell, M. Wold, R. Hopkins, and B. Petty (GSI)

H&S Meeting –Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

During mobilizing to Tract 19C MW cluster 1 & 2, the AT CM-55 became stuck due to uneven surfaces and swampy areas. The rig was able to be pulled out of the mud and move to the next set of locations.

Special Notes

High temperatures and humidity slowed down work during the afternoon. Frequent breaks were taken in the shade along with water breaks.

Signature: Alex Hedgepath

Title: Associate Geologist



Photo 1 – The AT CME-55 stuck at Tract 19C.



Photo 2 – The AT CME-55 stuck at Tract 19C.

**DAILY QUALITY CONTROL REPORT - 065**

Date - 6/13/2018

	S	M	T	W	Th	F	S
Weather				Sunny			
Temp				75-80F			
Wind				5 MPH			
Humidity				M			

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks

Geoprobe 6620DT

PID

CME AT-55

Work Performed: (onsite – 0630; offsite – 1600)

H&S Meeting – including general site safety and equipment safety

Mobilize to site for the day.

Collect subsurface soil samples from 11 (25/25) locations at Tract 19C to be analyzed for a select list of Explosives and Metals.

Ship samples collected today to Katahdin Analytical Lab via FedEx.

Demobilize from site for end of day.

**DAILY QUALITY CONTROL REPORT - 065**

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/12/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Verify sample and drilling locations before breaking ground.

Health and Safety Level Activities / Field Staff on Site:

Staff – A. Hedgepath (HGL); S. Cameron and B. Hylinski (ATI); J. Tinnell, M. Wold, R. Hopkins, and B. Petty (GSI)

H&S Meeting – Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

High temperatures and humidity slowed down work during the afternoon. Frequent breaks were taken in the shade along with water breaks.

Signature: Alex Hedgepath

Title: Associate Geologist



Photo 1: Samples are shipped via FedEx, and receipts are photographed to document the tracking numbers.



Photo 2: The cap that seals the bottom of the PVC well casing adds 2.5 inches to the total well depth. All wells installed during this 2018 project have a 2.5 inch cap beneath 10 ft of schedule 40, 2" PVC screen.

**DAILY QUALITY CONTROL REPORT - 066**

Date - 6/14/2018

	S	M	T	W	Th	F	S
Weather					Sunny		
Temp					75-80F		
Wind					20 MPH		
Humidity					26%		

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 Trucks

PID

Hanna turbidity meter

YSI water quality meter

Pump and accessories

CME AT-55

Work Performed: (onsite – 0830; offsite – 1600)

H&S Meeting – including general site safety and equipment safety

Mobilize to site for the day.

Installed Monitoring Wells 19C-UGIA-MW01 and 19C-LGIA-MW02.

Collected groundwater samples from wells 21B-BPA-UGIA-MW01 (with MS/MSD) and 21B-BPA-LGIA-MW02.

Shipped samples collected today to Katahdin Analytical Lab via FedEx.

Demobilize from site for end of day.

**DAILY QUALITY CONTROL REPORT - 066**

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/14/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Verify sample and drilling locations before breaking ground.

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron, Xavier Chagolla, and B. Hylinski (ATI); J. Tinnell and R. Hopkins (GSI)

H&S Meeting – Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

High temperatures and humidity slowed down work during the afternoon. Frequent breaks were taken in the shade along with water breaks.

Signature: Stuart Cameron

Title: Engineer



Photo 1: This wide-angle photograph facing west on West Capital Ave includes the fenced in area of 19C (to the right), and the rig set up on 19C-UGIA-MW01 visible in the distance.



Photo 2: The retention pond adjacent to Tract 19C.

**DAILY QUALITY CONTROL REPORT - 067**

Date - 6/15/2018

	S	M	T	W	Th	F	S
Weather						Sunny	
Temp						80-90F	
Wind						25-30 MPH	
Humidity						28%	

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

W9128F-16-D-0014-0002

Equipment Onsite:

4x4 Trucks

PID

Schonstedt Magnetometer

Trimble GPS

6610 Geoprobe DPT Rig

Bobcat

Work Performed: (onsite – 0830; offsite – 1600)

H&S Meeting – including general site safety and equipment safety, with emphasis on working in high temperatures

Mobilize to site for the day.

Advanced and sampled four, ten foot deep soil borings in Tract 21B for Metals and Explosives analysis.

Dug bollard holes in Tract 19C.

Shipped samples collected today to Katahdin Analytical Lab via FedEx. Cooler will be held at FedEx for pickup.

Returned the PID and Trimble GPS to rental company via FedEx.

Demobilize from site for end of day.

**DAILY QUALITY CONTROL REPORT - 067**

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/15/2018

CONTRACT NUMBER: W9128F-16-D-0014-0002

Quality Control Activities (including field calibrations):

Verify sample and drilling locations before breaking ground.

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron, Xavier Chagolla, Eugene Chagolla, and B. Hylinski (ATI); J. Tinnell and M. Wold (GSI)

H&S Meeting –Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

High temperatures and humidity slowed down work during the afternoon. Frequent breaks were taken in the shade along with water breaks.

Signature: Stuart Cameron

Title: Engineer



Photo 1: Bollard holes are augered to 2 ft below grade. For efficiency, surface pad and bollard install will occur simultaneously to conserve efforts associated with concrete mixing and application.



Photo 2: The wells in the photograph are 19C-UGIA-MW03 and 19C-LGIA-MW04.

**DAILY QUALITY CONTROL REPORT - 068**

Date - 6/16/2018

	S	M	T	W	Th	F	S
Weather							Partly -Cloudy
Temp							85-95F
Wind							25-35
Humidity							36%

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

W9128F-16-D-0014-0002

Equipment Onsite:

4x4 Trucks
1000 Gallon Water Tank
2 YSI Water quality meters
2 Water level meters
2 Hanna Turbidity meters
Waterra pump
Submersible pump (Proactive)

Work Performed: (onsite – 0830; offsite – 1600)

H&S Meeting – including general site safety and equipment safety, with emphasis on working in high temperatures
Mobilize to site for the day.
Developed the six wells installed in Tract 19C during this shift.
Disposed of water at USACE treatment system.
Demobilize from site for end of day.

**DAILY QUALITY CONTROL REPORT - 068**

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/16/2018

CONTRACT NUMBER: W9128F-16-D-0014-0002

Quality Control Activities (including field calibrations):

Calibrated water quality meters and turbidity meters.

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron, Xavier Chagolla, and B. Hylinski (ATI); J. Tinnell and M. Wold (GSI)

H&S Meeting – Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

Today was especially windy, so care was taken to avoid injury/issues from powerful gusts. Iced water was available to all personnel throughout the day, as well as air conditioned vehicles.

Signature: Stuart Cameron

Title: Engineer



Photo 1: The water quality testing equipment is situated on the flatbed next to the paperwork to facilitate data recording.



Photo 2: Upon exiting gated areas, locks are secured to prevent unauthorized access.

**DAILY QUALITY CONTROL REPORT - 069**

Date - 6/17/2018

	S	M	T	W	Th	F	S
Weather	Partly Cloudy						
Temp	80-90F						
Wind	15-20 mph						
Humidity	70%						

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

W9128F-16-D-0014-0002

Equipment Onsite:

No equipment was used aside from vehicles for demobilization; staff did not access the site.

Work Performed: (onsite – 0830; offsite – 1600)

The crew did not mobilize to the site today. The day was dedicated to completing paper work, inventory of equipment and sample bottles, and organizing the office and supplies.



DAILY QUALITY CONTROL REPORT - 069

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/20/2018

CONTRACT NUMBER: W9128F-16-D-0014-0002

Quality Control Activities (including field calibrations):

Health and Safety Level Activities / Field Staff on Site:

Staff – Stuart Cameron and Brant Hylinski (ATI) in attendance at GSI's office.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

The GSI crew decided to take Father's Day 2018 off work and, therefore, the ATI/HGL crew completed other tasks instead of a field day.

Signature: Stuart Cameron

Title: Engineer

**DAILY QUALITY CONTROL REPORT - 070**

Date - 6/18/2018

	S	M	T	W	Th	F	S
Weather		Partly Cloudy					
Temp		85-95F					
Wind		15-20 mph					
Humidity		49%					

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

W9128F-16-D-0014-0002

Equipment Onsite:

4x4 Trucks
Cement Mixing Truck
2 YSI Water quality meters
2 Water level meters
2 Hanna Turbidity meters
2 Bladder pumps and associated components

Work Performed: (onsite – 0830; offsite – 1600)

H&S Meeting – including general site safety and equipment safety, with emphasis on working in high temperatures
Mobilize to site for the day.
Surface completed the six wells installed in Tract 19C during this shift.
Sampled G0071, BPA-MW06, PRGW01, and PRGW02 (plus duplicate).
Disposed of water at groundwater treatment system.
Demobilize from site for end of day.

**DAILY QUALITY CONTROL REPORT - 070**

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/18/2018

CONTRACT NUMBER: W9128F-16-D-0014-0002

Quality Control Activities (including field calibrations):

Calibrated water quality meters and turbidity meters.

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron, Xavier Chagolla, and B. Hylinski (ATI); J. Tinnell and M. Wold (GSI)

H&S Meeting – Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

Another hot day onsite. Iced water was available to all personnel throughout the day, as well as air conditioned vehicles.

Signature: Stuart Cameron

Title: Engineer



Photo 1: Vials for VOC analysis are tilted at an angle when filled to minimize volatilization of potential contaminants.



Photo 2: Wells PRGW01 and PRGW02 in the BPA of Tract 21B were surrounded by tall grass and shrubs.

**DAILY QUALITY CONTROL REPORT - 071**

Date - 6/19/2018

	S	M	T	W	Th	F	S
Weather			Partly Cloudy				
Temp			75-85F				
Wind			15-20 mph				
Humidity			70%				

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

W9128F-16-D-0014-0002

Equipment Onsite:

4x4 Trucks
Cement Mixing Truck
2 YSI Water quality meters
2 Water level meters
2 Hanna Turbidity meters
2 Bladder pumps and associated components
Hand Auger and Extensions

Work Performed: (onsite – 0830; offsite – 1600)

H&S Meeting – including general site safety and equipment safety, with emphasis on working in high temperatures
Mobilize to site for the day.
Sampled 11-12 ft depth interval at Tract 20B locations SB02 (Explosives, Metals, and Hex chrom), SB07, SB08, and SB09 (Explosives and Metals). Duplicate sample collected at SB02.
Sampled monitoring wells BB-MW01, BB-MW02, and DS-LGIA-MW06.
Disposed of water at groundwater treatment system.
Demobilize from site for end of day.



DAILY QUALITY CONTROL REPORT - 071

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/19/2018

CONTRACT NUMBER: W9128F-16-D-0014-0002

Quality Control Activities (including field calibrations):

Calibrated water quality meters and turbidity meters.

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron, Xavier Chagolla, and B. Hylinski (ATI).

H&S Meeting – Standard daily tailgate meeting was conducted.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

Another hot day onsite. Iced water was available to all personnel throughout the day, as well as air conditioned vehicles.

Signature: Stuart Cameron

Title: Engineer



Photo 1: Groundwater sampling setup in Tract 21B in the Backstop Berm area.



Photo 2: Groundwater sampling conducted on the planting area in the DS area of Tract 21B. Crew was careful to avoid driving on the planting area or stepping on the crops.

**DAILY QUALITY CONTROL REPORT - 072**

Date - 6/20/2018

	S	M	T	W	Th	F	S
Weather				Rain			
Temp				60-70F			
Wind				15-20 mph			
Humidity				76%			

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

W9128F-16-D-0014-0002

Equipment Onsite:

No equipment was used aside from vehicles for demobilization; staff did not access the site.

Work Performed: (onsite – 0830; offsite – 1600)

The crew did not mobilize to the site today. The day was dedicated to returning rental equipment, organizing the office and supplies, returning the rental vehicle, and demobilizing from Grand Island.



DAILY QUALITY CONTROL REPORT - 072

PROJECT: Cornhusker Army Ammunition Plant

Date - 6/20/2018

CONTRACT NUMBER: W9128F-16-D-0014-0002

Quality Control Activities (including field calibrations):

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron, Xavier Chagolla, and B. Hylinski (ATI) in attendance at GSI's office.

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

Demobilization day. Crew will not return to the site for three weeks, so the primary objective was ensuring that everything was staged appropriately for their extended absence.

Signature: Stuart Cameron

Title: Engineer

**DAILY QUALITY CONTROL REPORT - 073**

Date - 7/16/2018

	S	M	T	W	Th	F	S
Weather		Sunny					
Temp		80-90F					
Wind		5-10 mph					
Humidity		67%					

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Mobile 57 HSA Rig
Pickup Trucks
Bobcat
MiniRAE PID

Work Performed: (onsite – 10:00; offsite – 17:30)

Equipment was compiled and calibrated, shift objectives and plans were discussed with staff, and one monitoring well was installed.



DAILY QUALITY CONTROL REPORT - 073

PROJECT: Cornhusker Army Ammunition Plant

Date - 7/16/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated MiniRAE PID

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron and B. Hylinski (ATI), and James Tinnell and Roy Hopkins (GSI). D Level PPE donned for field work. Safely working in the heat and sun were discussed during the health and safety meeting.

Problems Encountered/Corrective Action Taken/Comments:

The track mounted HSA rig that has been used to drill most of the wells installed during this project is not available. Restricted mobility may be an issue with the truck mounted rig that is available. No problems were encountered today, but the site was dry and forecasted rain may significantly degrade the conditions.

Special Notes

Mobilization day. Today was focused on health and safety and preparation.

Signature: Stuart Cameron

Title: Engineer



Photo 1: The soybean crops have been growing for several weeks in Tract 21C.



Photo 2: Monitoring well 20B-UGIA-MW10 was screened from 10-20 ft bgs. This split-spoon sample collected from 10.5-12.5 ft bgs illustrates that the clay/sand interface is 12ft below the ground surface at this location. Sand can be seen at the bottom portion of the spoon.

**DAILY QUALITY CONTROL REPORT - 074**

Date - 7/17/2018

	S	M	T	W	Th	F	S
Weather			Partly Cloudy				
Temp			70-80F				
Wind			5-15 mph				
Humidity			75%				

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Mobile 57 HSA Rig
Pickup Trucks
Bobcat
MiniRAE PID

Work Performed: (onsite – 7:40; offsite – 16:30)

Equipment was calibrated and three monitoring wells were installed (20B-UGIA-MW11, 20B-UGIA-MW09, and 21B-BPA-LGIA-MW10).



DAILY QUALITY CONTROL REPORT - 074

PROJECT: Cornhusker Army Ammunition Plant

Date - 7/17/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated MiniRAE PID

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron and B. Hylinski (ATI), and James Tinnell and Roy Hopkins (GSI). D Level PPE donned for field work. Safely working in the heat and sun were discussed during the health and safety meeting.

Problems Encountered/Corrective Action Taken/Comments:

Despite periods of rain, the staff has not encountered any troublesome terrain.

Special Notes

Signature: Stuart Cameron

Title: Engineer



Photo 1: Tip four feet of the borehole for monitoring well 20B-UGIA-MW09 was hand augered and scanned with a Schonstedt.



Photo 2: A path was cleared to enable access to the location of 21B-BPA-LGIA-MW10. This new well can be accessed from the north through the gate at the intersection of Capitol Ave and 90th Road.

**DAILY QUALITY CONTROL REPORT - 075**

Date - 7/18/2018

	S	M	T	W	Th	F	S
Weather				Partly Cloudy			
Temp				65-85F			
Wind				10 mph			
Humidity				79%			

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Mobile 57 HSA Rig
Pickup Trucks
Bobcat
MiniRAE PID

Work Performed: (onsite – 8:00; offsite – 17:30)

Equipment was calibrated and three monitoring wells were installed (19C-LGIA-MW07, 21B-DS-LGIA-MW12, and 21B-DS-UGIA-MW11).

**DAILY QUALITY CONTROL REPORT - 075**

PROJECT: Cornhusker Army Ammunition Plant

Date - 7/18/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated MiniRAE PID

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron and B. Hylinski (ATI), and James Tinnell and Roy Hopkins (GSI). D Level PPE donned for field work. Safely working in the heat and sun were discussed during the health and safety meeting.

Problems Encountered/Corrective Action Taken/Comments:

Despite periods of rain, the staff has not encountered any troublesome terrain.

Special Notes

Signature: Stuart Cameron

Title: Engineer



Photo 1: Split spoon collected from 38.5 to 40.5 in the borehole of monitoring well 19C-LGIA-MW07 contained the “Blue Clay” of the Fullerton Formation.



Photo 2: The field crew gets setup on 21B-DS-LGIA-MW12 along the border of the planting area.

**DAILY QUALITY CONTROL REPORT - 076**

Date - 7/19/2018

	S	M	T	W	Th	F	S
Weather					Sunny		
Temp					65-90F		
Wind					10 mph		
Humidity					78%		

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Mobile 57 HSA Rig
Pickup Trucks
Bobcat
MiniRAE PID

Work Performed: (onsite – 8:00; offsite – 17:30)

Equipment was calibrated and four monitoring wells were installed (21B-DS-UGIA-MW10, 21B-DS-LGIA-MW09, 21B-DS-UGIA-MW08, and 21B-BB-UGIA-MW03).

**DAILY QUALITY CONTROL REPORT - 076**

PROJECT: Cornhusker Army Ammunition Plant

Date - 7/19/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated MiniRAE PID

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron and B. Hylinski (ATI), and James Tinnell and Roy Hopkins (GSI). D Level PPE donned for field work. Safely working in the heat and sun were discussed during the health and safety meeting.

Problems Encountered/Corrective Action Taken/Comments:

Two locations in planting area are yet to be discussed with farmer. Tom Backer supplied us with the farmer's name and number: Robert Nunnenkamp [(402)694-6297]. A message was left with him to please call back to discuss his thoughts.

Special Notes

Signature: Stuart Cameron

Title: Engineer



Photo 1: Monitoring well 21B-DS-UGIA-MW10 was installed to the west of the access road through the site.



Photo 2: A water level is collected following installation of each well, and is recorded on the boring logs.

**DAILY QUALITY CONTROL REPORT - 077**

Date - 7/20/2018

	S	M	T	W	Th	F	S
Weather						Sunny	
Temp						65-90F	
Wind						5-10 mph	
Humidity						63%	

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Mobile 57 HSA Rig
Pickup Trucks
Bobcat
MiniRAE PID

Work Performed: (onsite – 8:00; offsite – 17:30)

Equipment was calibrated and three monitoring wells were installed (21B-BB-LGIA-MW04, 21B-BPA-UGIA-MW12, and 21B-BPA-UGIA-MW09).



DAILY QUALITY CONTROL REPORT - 077

PROJECT: Cornhusker Army Ammunition Plant

Date - 7/20/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated MiniRAE PID

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron and B. Hylinski (ATI), and James Tinnell and Roy Hopkins (GSI). D Level PPE donned for field work. Safely working in the heat and sun were discussed during the health and safety meeting.

Problems Encountered/Corrective Action Taken/Comments:

The crew lost about an hour of time waiting for thunderstorms to pass; the remainder of the day was sunny.

Special Notes

The farmer of Tract 21C, Robert Nunnenkamp [(402)694-6297], called Stuart at noon and approved installation of the two monitoring wells located within his planting area. Mr. Nunnenkamp requested that the staff drive parallel to the crops to access the well locations, and that extra care be taken to ensure wells are not installed in the path of center-pivot irrigation components.

Signature: Stuart Cameron

Title: Engineer



Photo 1: The crew took shelter in their vehicles and awaited several storm cells to pass through the area.



Photo 2: Dense vegetation surrounded the location of monitoring well 21B-BPA-UGIA-MW12. An acceptable access route identified by the crew was flagged and then cleared with a bobcat.

**DAILY QUALITY CONTROL REPORT - 078**

Date - 7/21/2018

	S	M	T	W	Th	F	S
Weather							Partly Cloudy
Temp							65-85F
Wind							5-10 mph
Humidity							60%

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Mobile 57 HSA Rig
Pickup Trucks
Bobcat
MiniRAE PID

Work Performed: (onsite – 8:00; offsite – 16:30)

Equipment was calibrated and two monitoring wells were installed (21B-BPA-UGIA-MW11 and 21B-DS-LGIA-MW13).



DAILY QUALITY CONTROL REPORT - 078

PROJECT: Cornhusker Army Ammunition Plant

Date - 7/21/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated MiniRAE PID

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron and B. Hylinski (ATI), and James Tinnell and Roy Hopkins (GSI). D Level PPE donned for field work. Safely working in the heat and sun were discussed during the health and safety meeting.

Problems Encountered/Corrective Action Taken/Comments:

The crew had to access install two monitoring wells in a planted field. Only the necessary vehicles were mobilized to the locations and care was taken to minimize damage to the crops.

Special Notes

In adherence to farmer's request, well 21B-BPA-UGIA-MW11 was accessed from the east because the crops were planted in east-west rows and well 21B-DS-LGIA-MW13 was accessed from the south because the crops were planted in north-south rows.

Signature: Stuart Cameron

Title: Engineer



Photo 1: This photo shows the access route to BPA-UGIA-MW11 after installation.



Photo 2: This photo shows the access route to DS-LGIA-MW13 after installation.

**DAILY QUALITY CONTROL REPORT - 079**

Date - 7/22/2018

	S	M	T	W	Th	F	S
Weather	Partly Cloudy						
Temp	65-85F						
Wind	5-10 mph						
Humidity	60%						

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Pickup Trucks
Water Tanks
Bobcat
MiniRAE PID
YSI Water Quality Meter
Hanna Turbidity Meter
Water Pumps

Work Performed: (onsite – 8:00; offsite – 18:00)

Bollard holes were augered, equipment was calibrated, and eight monitoring wells were developed (20B-UGIA-MW09, 20B-UGIA-MW10, 20B-UGIA-MW11, 21B-DS-UGIA-MW08, 21B-DS-LGIA-MW09, 21B-DS-UGIA-MW10, 21B-DS-UGIA-MW11 and 21B-DS-LGIA-MW12).



DAILY QUALITY CONTROL REPORT - 079

PROJECT: Cornhusker Army Ammunition Plant

Date - 7/22/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated MiniRAE PID

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron and B. Hylinski (ATI), and James Tinnell and Roy Hopkins (GSI). D Level PPE donned for field work. Safely working in the heat and sun were discussed during the health and safety meeting.

Problems Encountered/Corrective Action Taken/Comments:

None

Special Notes

None

Signature: Stuart Cameron

Title: Engineer



Photo 1: The Bobcat was equipped with an auger that was used to advance the bollard holes.



Photo 2: The wells were “surged” by pulling and pushing the pump/tubing up and down throughout the screened interval until water became visibly clear through the tubing, at which point water quality readings began to be collected.

**DAILY QUALITY CONTROL REPORT - 080**

Date - 7/23/2018

	S	M	T	W	Th	F	S
Weather		Partly Cloudy					
Temp		65-90F					
Wind		10-15 mph					
Humidity		49%					

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Pickup Trucks
Water Tanks
Bobcat
MiniRAE PID
YSI Water Quality Meter
Hanna Turbidity Meter
Water Pumps
6620 GeoProbe DPT Rig

Work Performed: (onsite – 9:50; offsite – 17:00)

Two monitoring wells were developed (19C-LGIA-MW07, 21B-LGIA-MW04), four DPT groundwater boreholes were advanced (samples collected include DPT01 through DPT08), and three DPT soil borings were advanced (samples collected include SS/SB01 through SS/SB03).



DAILY QUALITY CONTROL REPORT - 080

PROJECT: Cornhusker Army Ammunition Plant

Date - 7/23/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated MiniRAE PID, YSI, and Hanna Turbidity Meter

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron and B. Hylinski (ATI), and James Tinnell and Roy Hopkins (GSI). D Level PPE donned for field work. Safely working in the heat and sun were discussed during the health and safety meeting.

Problems Encountered/Corrective Action Taken/Comments:

While situating the DPT rig on soil boring location 19B-SS/SB03, an unidentified ditch caused the rig to roll onto it's side. Due to the staff's adherence to the daily equipment checks and detailed safety meetings in which such circumstances are often discussed, no fluid leaks, damage to the rig, or injury to personnel resulted from the incident. After righting the rig, its components were checked for damages and thoroughly washed with soap and a power washer to ensure that potentially unseen fluid leaks did not influence sampling. Work resumed following cleaning.

Special Notes

None

Signature: Stuart Cameron

Title: Engineer



Photo 1: During MW development, once the water quality parameters equilibrate, a photo of the water in a clear jar is taken for record.



Photo 2: An unidentified ditch caused the DPT rig to roll, but no damage, fluid leaks, or injury resulted. The rig was righted, and work resumed.

**DAILY QUALITY CONTROL REPORT - 081**

Date - 7/24/2018

	S	M	T	W	Th	F	S
Weather			Partly Cloudy				
Temp			60-85F				
Wind			5-10 mph				
Humidity			52%				

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Pickup Trucks
Water Tanks
Bobcat
MiniRAE PID
YSI Water Quality Meter
Hanna Turbidity Meter
Water Pumps
6620 GeoProbe DPT Rig

Work Performed: (onsite – 9:50; offsite – 17:00)

- The pads and bollards of the 16 newly installed monitoring wells were installed
- Four monitoring wells were developed
 - 21B-BB-UGIA-MW03
 - 21B-BPA-UGIA-MW12
 - 21B-BPA-UGIA-MW09
 - 21B-BPA-LGIA-MW10
- Four DPT groundwater boreholes were advanced
 - 19B-DPT09 and DPT10
 - 19B-DPT15 and DPT16
 - 19B-DPT17 and DPT18,
 - 19B-DPT19 and DPT20
- Six soil borings were advanced
 - 19B-SS/SB04
 - 19B-SS/SB05
 - 19B-SS/SB07 through SS/SB10

**DAILY QUALITY CONTROL REPORT - 081**

PROJECT: Cornhusker Army Ammunition Plant

Date - 7/24/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated MiniRAE PID, YSI, and Hanna Turbidity Meter

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron and B. Hylinski (ATI), and James Tinnell, Roy Hopkins and Pat White (GSI). D Level PPE donned for field work. Safely working in the heat and sun were discussed during the health and safety meeting.

Problems Encountered/Corrective Action Taken/Comments:

Crew could not access the location of 19B-SS/SB06, DPT11, and DPT12 with the DPT rig. There were no routes to the location that the rig could take safely, so an alternate location was proposed.

Special Notes

None

Signature: Stuart Cameron

Title: Engineer



Photo 1: This DPT Rig is used to advance soil sampling cores and groundwater sampling screens.



Photo 2: The pad frame is constructed and used to create a square concrete pad. The bollards are also filled with concrete along with the boreholes in which they are installed

**DAILY QUALITY CONTROL REPORT - 082**

Date - 7/25/2018

	S	M	T	W	Th	F	S
Weather				Rain/Clouds			
Temp				65-90			
Wind				5-10F			
Humidity				90%			

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Pickup Trucks

MiniRAE PID

6620 GeoProbe DPT Rig

Work Performed: (onsite – 7:00; offsite – 10:30)

- One surface soil sample was collected in Tract 19C
 - 19C-D01
- Two DPT groundwater boreholes were advanced
 - 19B-DPT11 and DPT12
 - 19B-DPT13 and DPT14
- One soil boring was advanced
 - 19B-SS/SB06

**DAILY QUALITY CONTROL REPORT - 082**

PROJECT: Cornhusker Army Ammunition Plant

Date - 7/25/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated MiniRAE PID.

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron and B. Hylinski (ATI), and James Tinnell, and Roy Hopkins (GSI). D Level PPE donned for field work.

Problems Encountered/Corrective Action Taken/Comments:

Weather radar indicated nearby storms and clouds could be seen. Work was conducted early and crew was able to demobilize offsite before the storms passed over the area. Unfortunately, development of the final two monitoring wells could not be conducted due to the weather and demobilization time-restraints.

Special Notes

None

Signature: Stuart Cameron

Title: Engineer



Photo 1: The storm clouds can be seen in this picture taken as the crew approached the site.



Photo 2: The soil boring collected from Tract 20B extended from the ground surface to 8 ft bgs. The opened soil sleeve can be seen in this photo.

**DAILY QUALITY CONTROL REPORT - 083**

Date - 8/6/2018

	S	M	T	W	Th	F	S
Weather		Partly Cloudy					
Temp		60-85F					
Wind		5-10 MPH					
Humidity		70%					

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Pickup Trucks

YSI Water Quality Meter

Hanna Turbidity Meter

4x4 Truck with 300 Gallon Water Tank

Work Performed: (onsite – 9:00; offsite – 14:30)

- Two monitoring wells were developed
 - 21B-BPA-UGIA-MW11
 - 21B-DS-LGIA-MW13
- Two waste characterization samples were collected
 - CHAAP-IDW-SOIL-080618-S
 - CHAAP-IDW-SOIL-080618-N



DAILY QUALITY CONTROL REPORT - 083

PROJECT: Cornhusker Army Ammunition Plant

Date - 8/6/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated YSI and Hanna.

Health and Safety Level Activities / Field Staff on Site:

S. Cameron reviewed health and safety requirements before mobilizing.

Problems Encountered/Corrective Action Taken/Comments:

None

Special Notes

None

Signature: Stuart Cameron

Title: Engineer



Photo 1: The gate at the intersection of Capitol and 90th seems to have become unhinged. Repairs were made late in the previous shift so this occurred between demob and mob of field staff.



Photo 2: Water from monitoring wells 21B-BPA-UGIA-MW11 (Left) and 21B-DS-LGIA-MW13 (Right) at the end of development is shown above.



Photo 3: Waste Characterization samples were collected from the roll-off dumpsters located to the south (left) and north (right) of the site.

**DAILY QUALITY CONTROL REPORT - 084**

Date - 8/7/2018

	S	M	T	W	Th	F	S
Weather			Sunny				
Temp			65-85F				
Wind			5-10 MPH				
Humidity			56%				

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

YSI Water Quality Meter

Hanna Turbidity Meter

Bladder Pump

Compressor

Flow Controller

4x4 Truck

Work Performed: (onsite – 9:00; offsite – 16:10)

- Six monitoring wells were sampled
 - 19C-UGIA-MW01
 - 19C-LGIA-MW02 (Duplicate collected)
 - 19C-UGIA-MW03
 - 19C-LGIA-MW04
 - 19C-UGIA-MW05
 - 19C-LGIA-MW06
- Groundwater samples were shipped to Katahdin Lab with the waste characterization samples collected yesterday.



DAILY QUALITY CONTROL REPORT - 084

PROJECT: Cornhusker Army Ammunition Plant

Date - 8/7/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated YSI and Hanna.

Health and Safety Level Activities / Field Staff on Site:

S. Cameron reviewed health and safety requirements before mobilizing.

Problems Encountered/Corrective Action Taken/Comments:

None

Special Notes

None

Signature: Stuart Cameron

Title: Engineer



Photo 1: Thick fog in the morning limited visibility on the drive to the site; Speed was decreased.



Photo 2: Receipt with tracking numbers for the five coolers shipped to the lab, today.

**DAILY QUALITY CONTROL REPORT - 085**

Date - 8/8/2018

	S	M	T	W	Th	F	S
Weather				Sunny			
Temp				65-85F			
Wind				5-10 MPH			
Humidity				55%			

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Pickup Truck
YSI Water Quality Meter
Hanna Turbidity Meter
Bladder Pump
Compressor
Flow Controller

Work Performed: (onsite – 8:15; offsite – 15:30)

- Five monitoring wells were sampled
 - 19C-LGIA-MW07
 - 19C-G0036
 - 20B-UGIA-MW9
 - 20B-UGIA-MW10
 - 20B-UGIA-MW11
- Groundwater samples were shipped to Katahdin Lab.



DAILY QUALITY CONTROL REPORT - 085

PROJECT: Cornhusker Army Ammunition Plant

Date - 8/8/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated YSI and Hanna.

Health and Safety Level Activities / Field Staff on Site:

S. Cameron reviewed health and safety requirements before mobilizing.

Problems Encountered/Corrective Action Taken/Comments:

None

Special Notes

None

Signature: Stuart Cameron

Title: Engineer



Photo 1: Chains of Custody are taped to the inside of the cooler lid before sealing the cooler.



Photo 2: A custody seal is signed and dated, then applied to the lid and body of the cooler.

**DAILY QUALITY CONTROL REPORT - 086**

Date - 8/9/2018

	S	M	T	W	Th	F	S
Weather					Sunny		
Temp					65-85F		
Wind					5-10 MPH		
Humidity					39%		

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Pickup Truck
YSI Water Quality Meter
Hanna Turbidity Meter
Bladder Pump
Compressor
Flow Controller

Work Performed: (onsite – 8:30; offsite – 15:30)

- Four monitoring wells were sampled
 - 20B-G0064
 - 21B-BPA-LGIA-MW10
 - 21B-BB-LGIA-MW04
 - 21B-BB-UGIA-MW03
- Groundwater samples were shipped to Katahdin Lab.

**DAILY QUALITY CONTROL REPORT - 086**

PROJECT: Cornhusker Army Ammunition Plant

Date - 8/9/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated YSI and Hanna.

Health and Safety Level Activities / Field Staff on Site:

S. Cameron reviewed health and safety requirements before mobilizing.

Problems Encountered/Corrective Action Taken/Comments:

FedEx staff did not effectively adhere the shipping label to the second cooler of yesterday's sample shipment, and consequently this cooler was lost in route to Katahdin lab. To eliminate the need to resample, ATI/HGL staff, FedEx, and the lab are searching for this cooler; to prevent reoccurrence, the field staff requested that FedEx also apply tape to the adhesive shipping labels to ensure they stay attached.

Special Notes

None

Signature: Stuart Cameron

Title: Engineer



Photo 1: Samples are situated in the cooler so that all bottles are in contact with double-bagged ice-bags.



Photo 2: Once samples are situated, a layer of ice bags is placed on top.

**DAILY QUALITY CONTROL REPORT - 087**

Date - 8/10/2018

	S	M	T	W	Th	F	S
Weather						Sunny	
Temp						65-85F	
Wind						5-10 MPH	
Humidity						45%	

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Pickup Truck
YSI Water Quality Meter
Hanna Turbidity Meter
Bladder Pump
Compressor
Flow Controller

Work Performed: (onsite – 8:30; offsite – 15:30)

- Five monitoring wells were sampled
 - 21B-BPA-UGIA-MW12
 - 21B-DS-UGIA-MW08
 - 21B-DS-LGIA-MW09
 - 21B-DS-UGIA-MW10
 - 21B-DS-UGIA-MW11
- 21B-DS-LGIA-MW12 was also sampled, but vials were destroyed during preparation for shipment so this location will be resampled.
- Groundwater samples were shipped to the FedEx location specified by Katahdin Lab for Saturday delivery.

**DAILY QUALITY CONTROL REPORT - 087**

PROJECT: Cornhusker Army Ammunition Plant

Date - 8/10/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated YSI and Hanna.

Health and Safety Level Activities / Field Staff on Site:

S. Cameron reviewed health and safety requirements before mobilizing.

Problems Encountered/Corrective Action Taken/Comments:

Vials from monitoring well 21B-DS-LGIA-MW12 were dropped and broken during shipment preparation. The protective baggies of two sets of vials had become partially adhered so that when one set was removed, the second was pulled with it until dropping to the ground. This well will be resampled and additional care will be taken to prevent reoccurrence.

Special Notes

None

Signature: Stuart Cameron

Title: Engineer

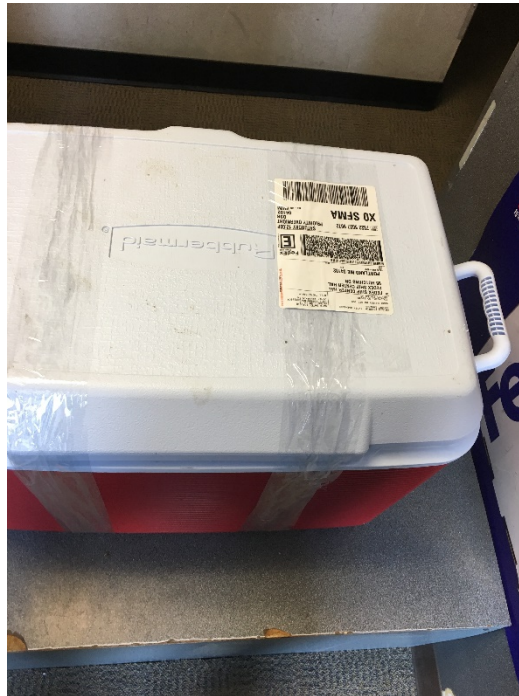


Photo 1: Additional tape was applied over the shipping label to ensure that it stays attached to the cooler.

Monday-Friday Sample Delivery: Katahdin Analytical Services
600 Technology Way
Scarborough, Maine 04070
Ph: 207-874-2400

Saturday Sample Delivery: Katahdin Analytical Services
95 Hutchins Drive
Portland, Maine 04102

Please mark the package "Hold for pick up" and check the Saturday delivery box.

Photo 2: The screenshot above stipulates the procedures for Saturday sample delivery.

**DAILY QUALITY CONTROL REPORT - 088**

Date - 8/12/2018

	S	M	T	W	Th	F	S
Weather	Sunny						
Temp	65-85F						
Wind	5-10 MPH						
Humidity	52%						

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Pickup Truck
YSI Water Quality Meter
Hanna Turbidity Meter
Bladder Pump
Compressor
Flow Controller

Work Performed: (onsite – 8:30; offsite – 15:30)

- Three monitoring wells were resampled due to a lost cooler by FedEx.
 - 19C-LGIA-MW07
 - 20B-UGIA-MW10
 - 20B-UGIA-MW11
- RDX samples were collected from all three, with PAHs also collected from 19C-LGIA-MW07.
- Groundwater samples are being held on ice until shipment to Katahdin Lab, tomorrow.
- Aluminum well labels were secured to the top of all wells installed in 2018.



DAILY QUALITY CONTROL REPORT - 088

PROJECT: Cornhusker Army Ammunition Plant

Date - 8/12/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):
Calibrated YSI and Hanna.
Health and Safety Level Activities / Field Staff on Site:
S. Cameron reviewed health and safety requirements before mobilizing.
Problems Encountered/Corrective Action Taken/Comments:
None
Special Notes
None
Signature: Stuart Cameron Title: Engineer



Photo 1: Background Area 3 was densely covered with tall vegetation.



Photo 2: Well details were engraved into aluminum tags that were secured to the well lids using heavy duty glue made for use with painted surfaces, steel, and aluminum.

**DAILY QUALITY CONTROL REPORT - 089**

Date - 8/13/2018

	S	M	T	W	Th	F	S
Weather		Partly Cloudy					
Temp		65-85F					
Wind		5-10 MPH					
Humidity		72%					

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Pickup Truck
YSI Water Quality Meter
Hanna Turbidity Meter
Bladder Pump
Compressor
Flow Controller

Work Performed: (onsite – 8:00; offsite – 15:30)

- Four monitoring wells were sampled
 - 21B-DS-LGIA-MW12
 - 21B-BPA-UGIA-MW09
 - 21B-DS-LGIA-MW03 (duplicate collected)
 - 21B-DS-G0104
- Two soil borings were advanced by DPT
 - 20B-SS/SB11 (sampled from 0-0.5, 3-4, 7-8, and 9-10)
 - 20B-SS/SB12 (sampled from 0-0.5, 3-4, 7-8, and 9-10)
 - The lab was instructed to hold the 9-10 ft sample
- Samples including those collected on Sunday, August 12th were shipped to Katahdin Lab.



DAILY QUALITY CONTROL REPORT - 089

PROJECT: Cornhusker Army Ammunition Plant

Date - 8/13/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated YSI and Hanna.

Health and Safety Level Activities / Field Staff on Site:

S. Cameron reviewed health and safety requirements before mobilizing.

Problems Encountered/Corrective Action Taken/Comments:

None

Special Notes

None

Signature: Stuart Cameron

Title: Engineer



Photo 1: A YSI-556 water quality meter displays the readings that are recorded during purging.



Photo 2: A Hanna Turbidity Meter is used to measure the turbidity of the water throughout purging.

**DAILY QUALITY CONTROL REPORT - 090**

Date - 8/14/2018

	S	M	T	W	Th	F	S
Weather			Heavy Rain				
Temp			65-85F				
Wind			5-10 MPH				
Humidity			74%				

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Pickup Truck
YSI Water Quality Meter
Hanna Turbidity Meter
Bladder Pump
Compressor
Flow Controller

Work Performed: (onsite – 8:00; offsite – 15:30)

- One monitoring well was sampled
 - 19B-G0037
- Samples were shipped to Katahdin Lab.
- Storage unit and GSI office was cleaned out in preparation for demobilization



DAILY QUALITY CONTROL REPORT - 090

PROJECT: Cornhusker Army Ammunition Plant

Date - 8/14/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated YSI and Hanna.

Health and Safety Level Activities / Field Staff on Site:

S. Cameron reviewed health and safety requirements before mobilizing.

Problems Encountered/Corrective Action Taken/Comments:

None

Special Notes

None

Signature: Stuart Cameron

Title: Engineer



Photo 1: Groundwater sampling setup.



Photo 2: At the intersection of 90th and Capitol, ATI bolted the upper hinge socket to the gate to prevent dislodging.

**DAILY QUALITY CONTROL REPORT - 091**

Date - 8/15/2018

	S	M	T	W	Th	F	S
Weather				Sunny			
Temp				65-80F			
Wind				5-10 mph			
Humidity				70%			

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

4x4 pickup truck

Work Performed: (onsite – 10:20; offsite – 11:05)

ATI escorted surveyors throughout the site in a pickup truck to ensure familiarity with appropriate routes of access to monitoring wells.



DAILY QUALITY CONTROL REPORT - 091

PROJECT: Cornhusker Army Ammunition Plant

Date - 8/15/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

None

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron (ATI), Adam Goertzen (JEO).

Problems Encountered/Corrective Action Taken/Comments:

None.

Special Notes

Demobilization day. No photos were taken because the primary objective was demobilization.

Signature: Stuart Cameron

Title: Engineer

**DAILY QUALITY CONTROL REPORT - 093**

Date – 9/24/2018

	S	M	T	W	Th	F	S
Weather		Partly Cloudy					
Temp		65-85F					
Wind		10-15 mph					
Humidity		67%					

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Mobile 55 HSA Rig
Pickup Trucks
Bobcat
MiniRAE PID

Work Performed: (onsite – 9:30; offsite – 17:30)

Equipment was calibrated and two monitoring wells were installed (19B-LGIA-MW02 and 19B-UGIA-MW01).



DAILY QUALITY CONTROL REPORT - 093

PROJECT: Cornhusker Army Ammunition Plant

Date - 9/24/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated MiniRAE PID

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron from ATI, and Matt Wold and Dennis Bloomquist from GSI. D Level PPE donned for field work. Safely working in the heat and sun were discussed during the health and safety meeting.

Problems Encountered/Corrective Action Taken/Comments:

No problems were encountered.

Special Notes

Signature: Stuart Cameron

Title: Engineer



Photo 1: The HSA rig is shown here setup on 19B-LGIA-MW02; Wells 19B-UGIA-MW01 and 19B-LGIA-MW02 are located along the northernmost corner of Tract 19B.



Photo 2: The 2-inch diameter PVC well casing arrives in plastic bags to prevent contamination prior to installation.

**DAILY QUALITY CONTROL REPORT - 094**

Date – 9/25/2018

	S	M	T	W	Th	F	S
Weather			Heavy Rain				
Temp			60-70F				
Wind			15 MPH				
Humidity			47%				

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Mobile 55 HSA Rig
Pickup Trucks
Bobcat
MiniRAE PID

Work Performed: (onsite – 12:00; offsite – 15:00)

Due to poor weather, including strong winds and periods of thunderstorms, the majority of the day was spent on office work. The few hours in the field comprised equipment decontamination and preparation for mob to the next set of wells.



DAILY QUALITY CONTROL REPORT - 094

PROJECT: Cornhusker Army Ammunition Plant

Date - 9/25/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated MiniRAE PID

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron from ATI and Matt Wold from GSI. D Level PPE donned for field work. Safely working in the high wind was discussed.

Problems Encountered/Corrective Action Taken/Comments:

Poor weather conditions limited field work. Low risk tasks were conducted to maximize efficiency tomorrow.

Special Notes

Signature: Stuart Cameron

Title: Engineer

**DAILY QUALITY CONTROL REPORT - 094**

Date – 9/26/2018

	S	M	T	W	Th	F	S
Weather				Sunny			
Temp				50-70F			
Wind				5-10 MPH			
Humidity				30%			

USACE PROJECT MANAGER:

Doug Simpleman

PROJECT:

Cornhusker Army Ammunition Plant

CONTRACT NUMBER:

AT3001

Equipment Onsite:

Mobile 57 HSA Rig
Pickup Trucks
Bobcat
MiniRAE PID

Work Performed: (onsite – 7:30; offsite – 16:00)

Equipment was inspected and calibrated, a health and safety tailgate meeting was conducted, and three monitoring wells were installed (19B-UGIA-MW03, 19B-LGIA-MW04, and 19B-LGIA-MW06).



DAILY QUALITY CONTROL REPORT - 094

PROJECT: Cornhusker Army Ammunition Plant

Date - 9/26/2018

CONTRACT NUMBER: AT3001.

Quality Control Activities (including field calibrations):

Calibrated MiniRAE PID

Health and Safety Level Activities / Field Staff on Site:

Staff – S. Cameron from ATI, and Matt Wold, James Tinnell, and Randall Ureste from GSI. D Level PPE donned for field work. Safely working with a three-man drilling crew was discussed; focused on maintaining situational awareness and ensuring that operators know your location.

Problems Encountered/Corrective Action Taken/Comments:

No problems were encountered.

Special Notes

Signature: Stuart Cameron

Title: Engineer