# Monitoring Well Decommissioning Completion Report Former Fort Ord, California



Prepared for:

**U.S. Army Corps of Engineers** 

Sacramento District 1325 J Street

Sacramento, CA 95814-2922

On behalf of:



**U.S. Department of the Army** 

Fort Ord Base Realignment and Closure 4463 Gigling Road, Room 101

Seaside, CA 93955

USACE Contract No. W91238-14-C-0048

Task No. 10.10

Prepared by:

Ahtna

Ahtna Environmental, Inc.

296 12th Street

Marina, CA 93933-6001

Report Date: November 9, 2018

Report Version: **Draft** 

## **Report Use and Limitations**

Report Title: Monitoring Well Decommissioning Completion Report

Former Fort Ord, California

Prime Contractor: Ahtna Environmental, Inc.

USACE Contract No.: W91238-14-C-0048

Task No.: 10.10

Ahtna Environmental, Inc. (Ahtna) prepared this report at the direction of the U.S. Army Corps of Engineers (USACE) for the sole use of the U.S. Department of the Army (Army), the intended beneficiary. No other party should rely on the information contained herein without the prior written consent of the Army. This report and its interpretations, conclusions, and recommendations use the information presented in other documents, as cited in the text and listed in the references. Therefore, this report is subject to the limitations and qualifications presented in the referenced documents.

## **Report Approval**

Report Title: Monitoring Well Decommissioning Completion Report

Former Fort Ord, California

Prime Contractor: Ahtna Environmental, Inc.

USACE Contract No.: W91238-14-C-0048

Task No.: 10.10

Derek S. Lieberman, P.E. Certificate No. C 57417 Ahtna Environmental, Inc.

Project Manager

Holly Dillon Ahtna Environmental, Inc. Task Lead

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## **Acronyms and Abbreviations**

Ahtna Ahtna Environmental, Inc.
Army U.S. Department of the Army

bgs below ground surface

BRAC Base Realignment and Closure

FONR Fort Ord Natural Reserve IDW investigation-derived waste

OU2 Operable Unit 2

OUCTP Operable Unit Carbon Tetrachloride Plume

QC Quality Control Sites 2/12 Sites 2 and 12

USACE U.S. Army Corps of Engineers

#### 1.0 Introduction

Ahtna Environmental, Inc. (Ahtna) prepared this *Monitoring Well Decommissioning Completion Report, Former Fort Ord, California* (Completion Report) on behalf of the U.S. Army Corps of Engineers (USACE) Sacramento District per Contract W91238-14-C-0048. This Completion Report describes the monitoring well decommissioning activities conducted at Sites 2 and 12 (Sites 2/12), Operable Unit 2 (OU2), and Operable Unit Carbon Tetrachloride Plume (OUCTP) (Figure 1). This Completion Report includes a description of activities conducted, including methods and procedures used for monitoring well decommissioning in accordance with the *Monitoring Well Decommissioning Work Plan, Former Fort Ord, California* (Work Plan; Ahtna, 2018).

### 2.0 Well Decommissioning Activities

Well decommissioning activities began on August 21, 2018 and were completed August 27, 2018. The locations of decommissioned wells are shown on Figures 2 through 5, well decommissioning procedures are detailed in Section 2.3, and project field reports documenting field activities are included in Appendix A.

#### 2.1 Notification and Access

Property owners were notified of fieldwork activities before the start of work as specified in the Work Plan (Ahtna, 2018). Ahtna personnel kept copies of the Fact Sheet provided in the Work Plan (Ahtna, 2018) onsite for distribution to interested members of the public.

#### 2.2 Permitting and Clearance

Permits for the 13 monitoring well decommissioning locations were obtained from the Monterey County Health Department and copies of the permits are provided in Appendix B. A temporary entry permit was obtained from the Trustees of the California State University for access to MW-OU2-59-A and MW-OU2-60-A on California State University Monterey Bay property (Figure 3). A City of Marina encroachment permit was obtained for the eight wells located within the City's jurisdiction: MW-OU2-36-A, MW-BW-62-A, MW-BW-64-A, MW-BW-68-A, MW-BW-69-A, MW-BW-70-A, MW-BW-20-180, and MW-BW-22-180 (Figures 3, 4 and 5).

#### 2.3 Well Decommissioning Procedures

Yellow Jacket Drilling Services, a California C-57 licensed drilling company, decommissioned all 13 monitoring wells under Ahtna's supervision and in accordance with the Work Plan (Ahtna, 2018). Characteristics of decommissioned wells are listed in Table 1, well decommissioning logs are included in Appendix C, and State of California well completion reports are provided in Appendix D. The well decommissioning proceeded as follows:

- 1. Groundwater sampling hardware, if any, was removed and disposed of as investigation-derived waste (IDW).
- The total well depth was measured and compared to known well details to confirm there were no obstructions present that could interfere with filling and sealing the casing and/or screen (Table 1).<sup>1</sup> No obstructions were encountered in any of the wells.
- 3. The depth to groundwater was measured and recorded (Table 1).
- 4. The minimum grout volume required to fill the well casing from the record total depth to within 5 feet of ground surface was calculated, except for MW-02-12-180 and MW-BW-29-180 where the calculated grout volume is to within 1 foot of ground surface (Table 1).<sup>2</sup>

<sup>&</sup>lt;sup>1</sup> Known well details were obtained from well construction logs, if available, and the Army's Well Information database in the Fort Ord Data Integration System (FODIS) as described in the Work Plan (Ahtna, 2018).

<sup>&</sup>lt;sup>2</sup> According to the Work Plan (Ahtna, 2018), wells located in biologically sensitive areas were excavated to only 1 foot bgs instead of 5 feet bgs to limit the impact to sensitive biological species.

- 5. The well was filled with sealing material consisting of 5 percent bentonite and 95 percent neat cement grout using a tremie from the bottom of the well to within 5 feet below ground surface (bgs) except for MW-02-12-180 and MW-BW-29-180, which were filled with grout to within 1 foot bgs. The actual volume of sealing material placed exceeded the calculated volume for all 13 wells, indicating successful penetration of grout through the well screen and into the surrounding soil (Table 1).<sup>3</sup>
- 6. The grout was pressurized in the well casing to 15 pounds per square inch for 15 minutes, after which the depth to grout was checked and additional grout added to bring the top of grout back up to 5 feet bgs or 1 foot bgs for MW-02-12-180 and MW-BW-29-180. Excess grout was placed in portable metal bins or equivalent and disposed of as solid IDW.
- 7. The surface completion for each well was removed, including concrete pads, bollards, monuments, and well boxes, except for MW-BW-62-A as described in Section 2.7.
- 8. The well casing was removed to a depth of 5 feet bgs. Per the Work Plan (Ahtna, 2018), the casing for wells in biologically sensitive areas (MW-02-12-180 in the Fort Ord Dunes State Park [Figure 2] and MW-BW-29-180 in the Fort Ord Natural Reserve [FONR, Figure 5]) was removed to a depth of 1 foot bgs.
- 9. A concrete cap was placed on top of the well casing at 5 feet bgs (or 1 foot bgs at MW-02-12-180 and MW-BW-29-180).
- 10. The excavation above the concrete cap was backfilled with native material and regraded to match surrounding topography. Per the Work Plan (Ahtna, 2018), the top three to six inches of topsoil at MW-02-12-180 and MW-BW-29-180 were set aside and reused as the surface soil layer when regrading the excavated area.

Representatives of the Monterey County Health Department were on site to observe the placement of well sealing material.

#### 2.4 Investigation-Derived Waste

Solid IDW was contained in drums or bins onsite and was disposed of in accordance with applicable laws and regulations. Liquid IDW was contained in labeled drums or tanks and was disposed of at the OU2 groundwater treatment plant.

Solid non-hazardous waste, such as disposable personal protective equipment and non-reusable sampling equipment, was disposed of in a waste receptacle located at the Ahtna office at 296 12<sup>th</sup> Street, Marina, California.

Removed surface completions, including concrete and metal materials, were taken to the Monterey Peninsula Landfill for disposal and/or recycling.

#### 2.5 Reporting

For each day of fieldwork a Project Field Report was prepared to summarize onsite personnel, visitors, equipment, hours of operation, activities, quality and safety issues, corrective actions, and present a

<sup>&</sup>lt;sup>3</sup> According to the Work Plan (Ahtna, 2018), wells located in biologically sensitive areas were excavated to only 1 foot bgs instead of 5 feet bgs to limit the impact to sensitive biological species.

photographic record. The daily Project Field Reports were submitted to USACE upon completion of fieldwork activities and are included in Appendix A.

#### 2.6 Habitat Monitoring

The U.S. Fish and Wildlife Service-approved Onsite Biologist, Denise Duffy & Associates, surveyed locations, access routes, and staging areas prior to fieldwork activities and identified areas containing populations of Monterey gilia and Monterey spineflower for the following three wells:

- MW-02-12-180 located within Fort Ord Dunes State Park (Figure 2)
- MW-BW-29-180 located within the FONR (Figure 5)
- MW-OU2-59-A located outside the FONR, but had to be accessed through the FONR (Figure 3)

Additionally, in the MW-02-12-180 area at Fort Ord Dunes State Park, the Onsite Biologist identified areas containing populations of Buckwheat, which is habitat for the federally endangered Smith's blue butterfly (*Euphilotes enopte smithi*).

The Onsite Biologist used the baseline survey results to adjust the access routes, staging areas, and turnaround areas to ensure personnel and equipment stayed within designated work areas and prohibit access to protected areas. The Onsite Biologist was onsite during decommissioning activities to ensure conservation measures were implemented.

Two Habitat Checklists were prepared prior to decommissioning activities (Appendix E). The Onsite Biologist provided training to onsite field personnel to avoid special-status animal and plant species and minimize disturbance in the FONR and Fort Ord Dunes State Park. Special-status animal species (Smith's blue butterfly, coast horned lizard, black legless lizard, and California tiger salamander) were not observed during well decommissioning activities.

The Onsite Biologist will conduct three years of annual follow-up habitat monitoring in areas of the Fort Ord Dunes State Park and FONR disturbed during well decommissioning field activities. Follow-up surveys will be conducted during the peak blooming period for the species being monitored (Monterey gilia, Monterey spineflower, and Buckwheat). Each year for the three-year follow-up habitat monitoring period an evaluation report will be prepared and provided to USACE and the Army Base Realignment and Closure (BRAC) Fort Ord Field Office detailing updated special-status plant species populations and documenting impacts potentially related to well decommissioning activities.

#### 2.7 Work Plan Deviations

Per Section 5.1 of the Work Plan (Ahtna, 2018), well surface completions were removed; however, the below ground well vault associated with MW-BW-62-A was left in place. The vault is located in an unimproved portion of Lexington Court (Figure 4) and measures 34 inches wide by 46 inches long by 38 inches deep. The vault was too large to remove with available onsite equipment; therefore, with the approval of USACE and the BRAC Fort Ord Field Office, the vault lid and frame were removed and the well vault filled with clean sand and covered with native material. A description of the work and a photographic record are provided in the Project Field Reports for August 24 and 25, 2018 (Appendix A). No other Work Plan deviations occurred.

#### 2.8 Quality Control

During field decommissioning activities the three-phase quality control (QC) inspection process was utilized according to the Work Plan (Ahtna, 2018). Completed three-phase QC inspection forms are provided in Appendix A. There were no QC issues identified during the well decommissioning activities.

#### 2.9 Site Safety and Health

Each decommissioning location had an area around the heavy equipment where personnel were required to wear appropriate personal protective equipment including; hard hat, high visibility safety vest, safety glasses, safety toe boots, hearing protection (as needed), and disposable mask (for grout mixers). The Accident Prevention Plan (Ahtna, 2015) and Work Plan Activity Hazard Analysis (Ahtna, 2018) were referenced for applicable site training and procedures. Kickoff site training was conducted on August 21, 2018 with onsite personnel reviewing items in Work Plan Section 2.4 (Ahtna, 2018). On each following day of fieldwork, from August 22 through 27, 2018, a tailgate safety meeting was held with onsite personnel and no safety issues were identified during field activities. Completed daily site safety tailgate and inspection logs are included in Appendix A. The Site Safety and Health Officer performed a thorough Jobsite Safety Inspection on August 23, 2018 and no safety issues were identified (Appendix A).

#### 3.0 References<sup>4</sup>

Ahtna Environmental, Inc. (Ahtna), 2015. Accident Prevention Plan, Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume; and Soil Gas Remedy and Monitoring at Sites 2 and 12, Former Fort Ord, California. March.

Ahtna, 2018. *Final Monitoring Well Decommissioning Work Plan, Former Fort Ord, California*. July 25. AR# <u>BW-2853A</u>.

<sup>&</sup>lt;sup>4</sup> At the end of references included in the Fort Ord Administrative Record are the Administrative Record Numbers (AR#s) (e.g. BW-1234). To find the referenced document, this number may be typed into the Online Search tool at: <a href="http://www.fortordcleanup.com/documents/search/">http://www.fortordcleanup.com/documents/search/</a>. Please note the referenced documents were available in the Fort Ord Administrative Record at the time this document was issued; however, some may have been superseded by more current versions and were subsequently withdrawn.

Former	Fort	Ord.	Cali	forn	ic

## **TABLE**

Monitoring Well Decommissioning Completion Report

**Table 1. Decommissioned Well Characteristics** 

Well ID	Site	Aquifer	Biologically Sensitive Area <sup>1</sup>	Northing	Easting	Screen Top (ft bgs)	Screen Bottom (ft bgs)	Screen Length (ft)	Silt Trap Length (ft)	Record TD (ft bgs) <sup>2</sup>	Measured TD (ft btoc) <sup>3</sup>	DTW (ft btoc) <sup>4</sup>		Decom- mission Date	Minimum Grout Needed (gal) <sup>5</sup>	Actual Grout Used (gal)
MW-02-12-180	Sites 2/12	Upper	Yes	2137991.00	5735908.55	113	128	15	6	134.00	128.69	57.06	4	8/23/2018	87	110
MW-0U2-33-A	OU2	А	No	2137374.05	5738654.58	120	150	30	1.2	151.20	150.80	116.21	5	8/22/2018	149	180
MW-0U2-36-A	OU2	Α	No	2139579.50	5739394.85	123	133	10	2	135.00	134.70	89.05	5	8/27/2018	133	270
MW-OU2-59-A	OU2	Α	No	2136830.16	5750924.76	93	122	29	1	123.00	124.50	99.05	5	8/27/2018	120	270
MW-0U2-60-A	OU2	Α	No	2135729.64	5750438.98	88	117	29	1	118.00	119.50	93.85	5	8/26/2018	115	257
MW-BW-62-A	OUCTP	$A^6$	No	2137725.50	5748172.09	99.5	129.5	30	0.5	130.00	126.00	103.68	5	8/25/2018	127	358
MW-BW-64-A	OUCTP	$A^6$	No	2138018.00	5748548.70	97.5	127.5	30	0.5	128.00	127.05	101.00	5	8/22/2018	125	250
MW-BW-68-A	OUCTP	NA <sup>7</sup>	No	2138039.84	5748076.57	61	91	30	0	91.00	89.90	89.60	4	8/24/2018	56	147
MW-BW-69-A	OUCTP	NA <sup>7</sup>	No	2138139.54	5748326.23	61	91	30	0	91.00	90.70	89.70	4	8/24/2018	56	142
MW-BW-70-A	OUCTP	NA <sup>7</sup>	No	2137680.98	5748431.32	61	91	30	0	91.00	91.50	91.20	4	8/24/2018	56	145
MW-BW-20-180	OUCTP	Upper	No	2140645.12	5747685.23	177.5	197.5	20	0	197.50	198.70	156.70	5	8/25/2018	196	365
MW-BW-22-180	OUCTP	Upper	No	2140553.48	5748198.84	177.5	197.5	20	0	197.50	198.70	164.83	5	8/26/2018	196	262
MW-BW-29-180	OUCTP	Upper	Yes	2140951.74	5747985.78	200	220	20	1	221.00	220.80	158.23	5	8/23/2018	224	225

#### Notes:

#### **Acronyms and Abbreviations:**

bgs: below ground surface

btoc: below top of casing

DTW: depth to water

ft: feet

gal: gallons

NA: not applicable

ND: not detected

TD: total depth

<sup>&</sup>lt;sup>1</sup>Well is located in an area with habitat conservation requirements.

<sup>&</sup>lt;sup>2</sup>Record TD: total depth from ground surface as recorded on well construction logs and/or the Army's Well Information database in the Fort Ord Data Integration System (FODIS).

<sup>&</sup>lt;sup>3</sup>Measured TD: total depth from top of casing as measured prior to decommissioning.

<sup>&</sup>lt;sup>4</sup>Depth to water from top of casing as measured prior to decommissioning.

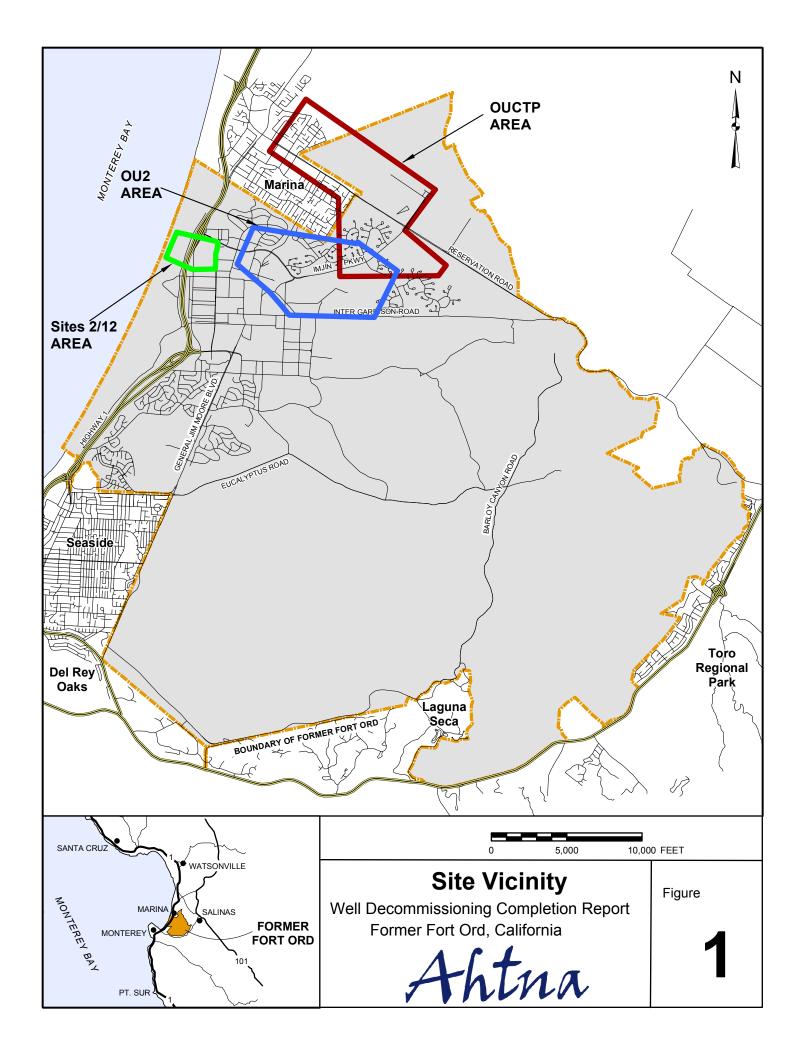
<sup>&</sup>lt;sup>5</sup>Calculated volume of grout needed to fill well casing from record TD to within 5 feet of ground surface.

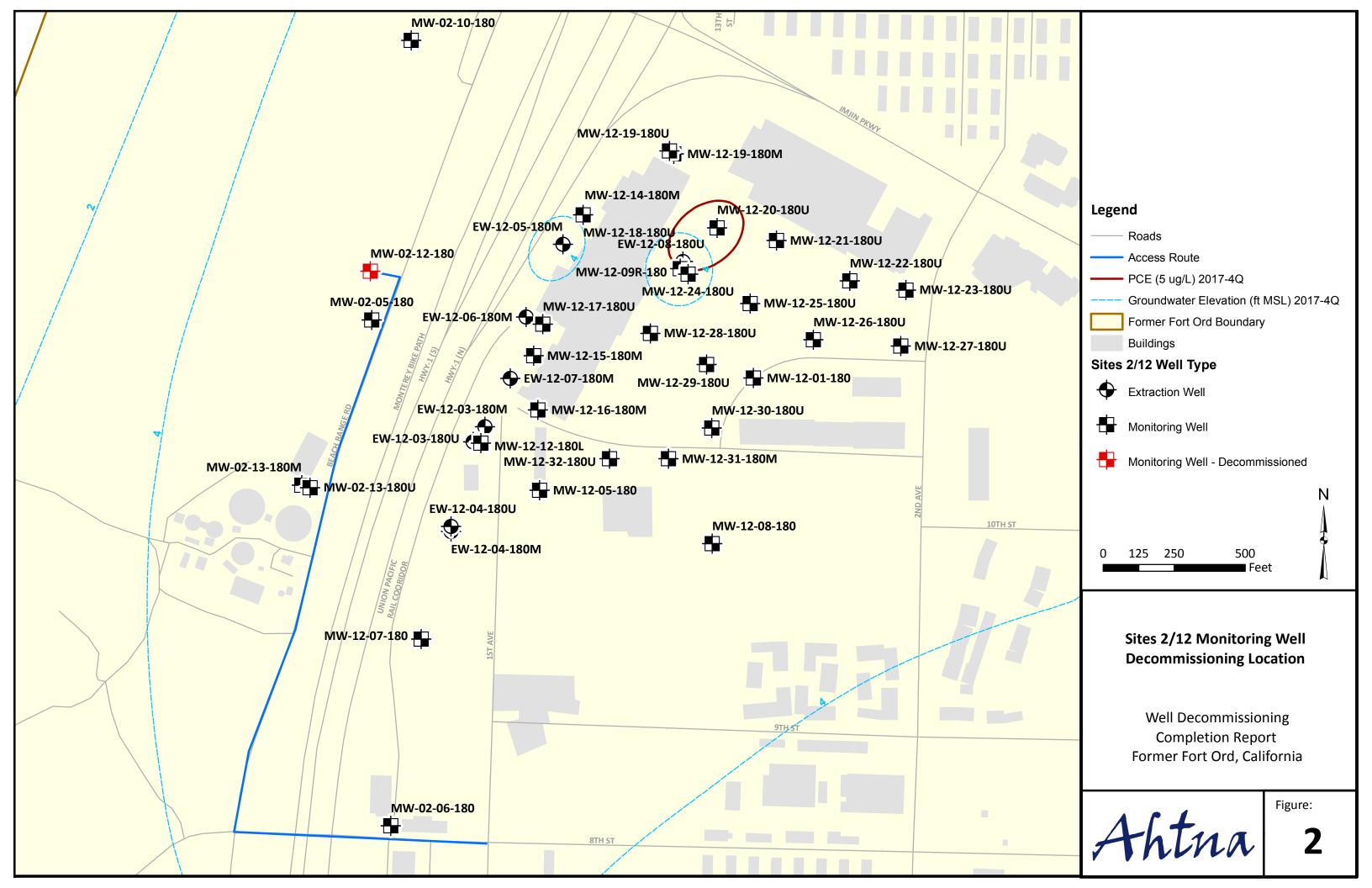
<sup>&</sup>lt;sup>6</sup>Dual-screened well with screen in saturated zone for groundwater monitoring and screen in vadose zone for soil vapor extraction; only saturated zone screen interval is noted.

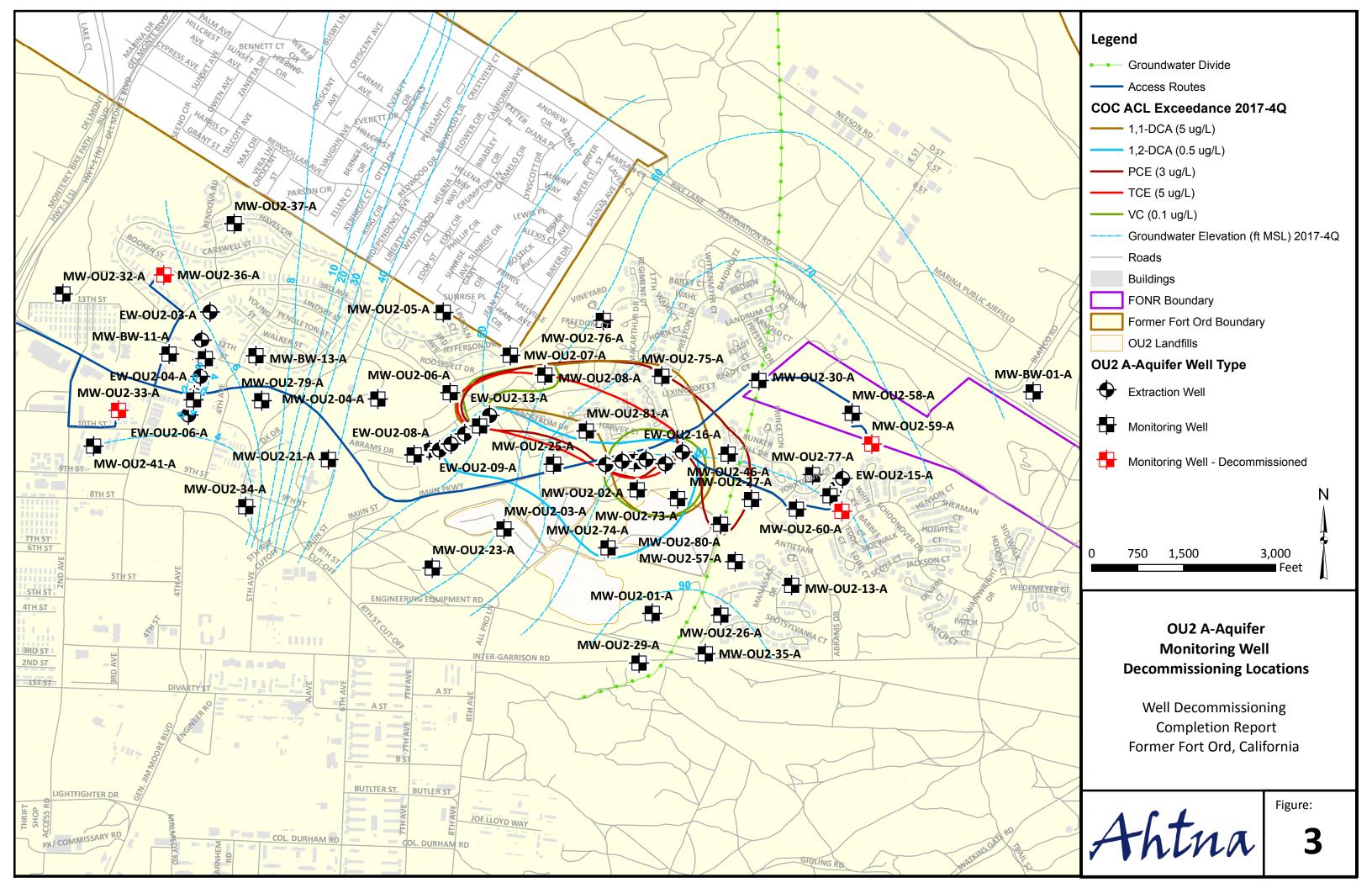
<sup>&</sup>lt;sup>7</sup>Screened in vadose zone.

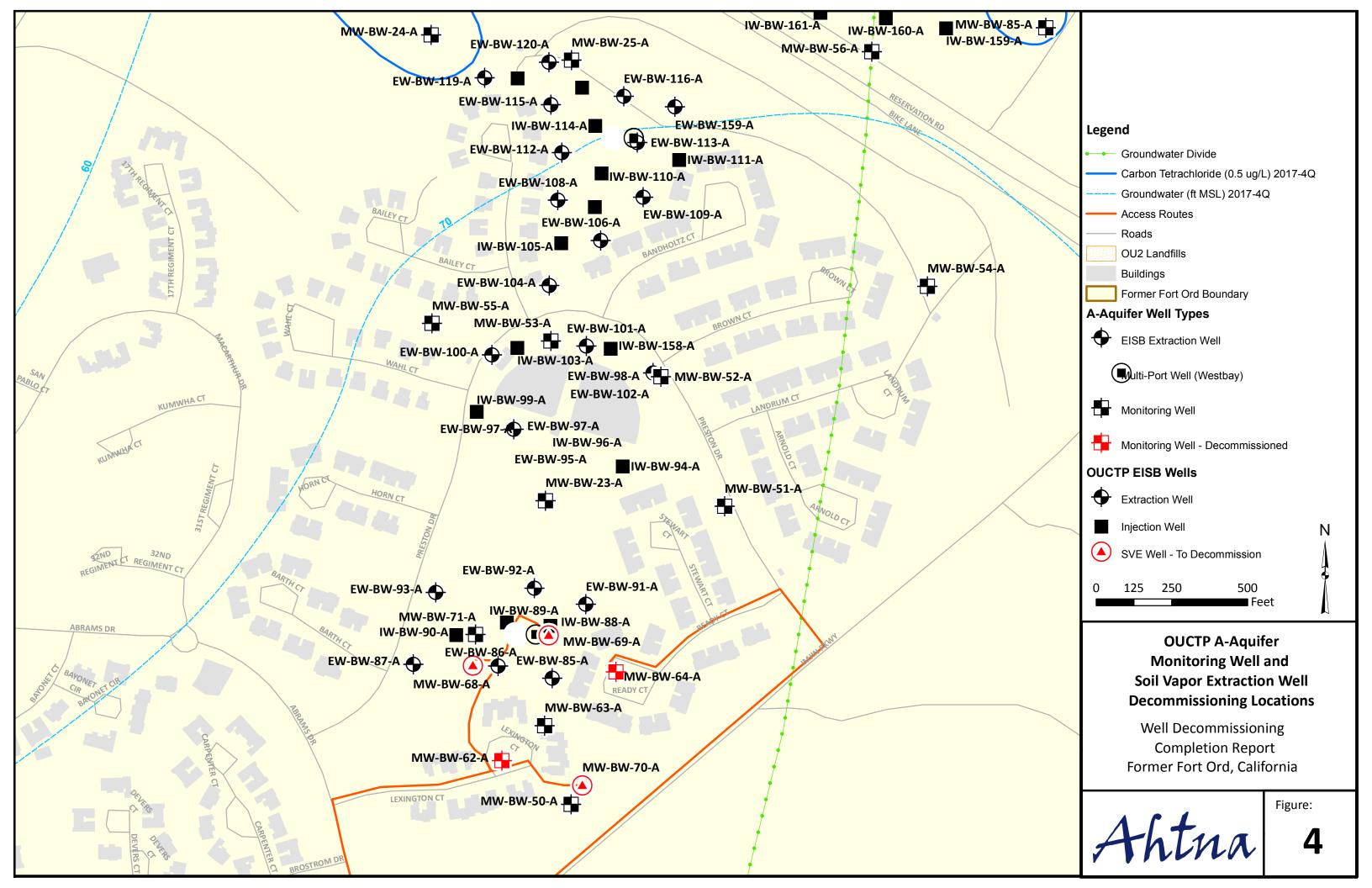
Former	Fort	Ord.	Cali	forn	ic

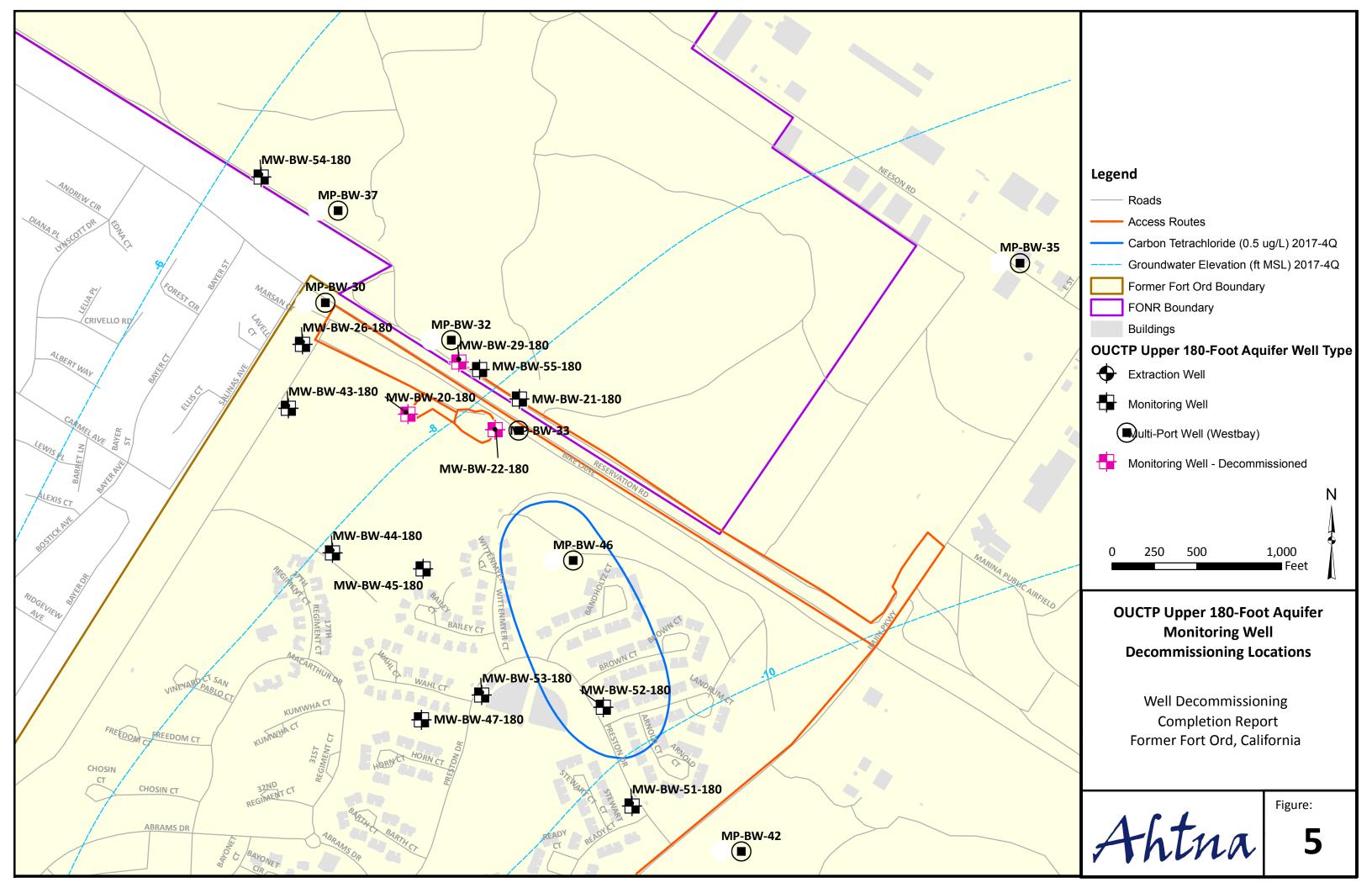
## **FIGURES**











port	Former Fort Ord, California
APPENDICES	
APPENDICES	

Monitoring Well Decommissioning Completion Report

Former Fort Ord, California
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## **APPENDIX A**

**Project Field Reports** 



GENERAL							
1) USACE Contract No.:	W91238-14-C-0048	2) Date:	8/21/2018				
3) Program Manager	Derek Lieberman	4) Report No.:	D-1				
5) Task Lead:	Holly Dillon	6) SSHO (Designee):	Holly Dillon				
7) Superintendent:	Mark Fisler	8) QC Manager:	Andrew Mauck				
9) Weather:	Overcast	10) Temperature:	60-70				

SUMMARY										
11) Work Performed:	11) Work Performed:									
	Decommissioned Monitoring Well MW-OU2-33-A. Filled Monitoring Well with Grout. Pulled Conductor Casing out of the ground.									
12) Project Issues: Drill Bit is stuck in the Conductor Casing.										
13) Unresolved Issues: Drill Bit is stuck in the Conductor Casing.										

	CONTRACTOR PERSONNEL							
14) Prime Contractor and	Subcontractor Onsite:							
Name	Company	Position/Title						
Andrew Mauck	Ahtna	Field Technician/QC	Manager					
Brian Hernandez Yellow Jacket Driller								
Javier Rios Yellow Jacket Helper								
James Wolfley	Yellow Jacket	Helper						
Holly Dillon	Ahtna	SSHO						
	GOVERNMEN	T PERSONNEL						
15) Government Personr	15) Government Personnel Onsite:							
Name	Company	Position/Title	Arrive/Depart (Day)					
Tom Ghigliotto Chenega Oversight								

VISITING PERSONNEL										
16) Visitors Onsite:	16) Visitors Onsite:									
Name	Company	Position/Title	Arrive/Depart (Day)							
Roger Van Horn	Monterey County	Environmental Inspector	1445/1530							
Christie Vo	Monterey County	Environmental Inspector	1445/1530							
Isaiah Taezol	Monterey County	Environmental Inspector	1445/1530							

DETAIL					
17) Attachments:					
1. Field Notes					
2. Well Destruction Form					
3. Initial Phase Inspection					
4. Follow-Up Phase Inspection					
5. Yellow Jacket Daily Drill Report					
6. Safety Tailgate					
18) Report Submitted by: Andrew Mauck					



19) Photos:



Description: 95% Portland Cement 5% Bentonite is pumped to the bottom of the well using a tremie pipe.



Description: Grout is Pressurized to 15 PSI for 15 mins.





Description: Concrete Collar is broken up.



Description: Drill Bit is stuck in the Conductor Pipe surrounding the Monitoring Well Pipe.

Ahtna Description: well Denolitarian  mw-6u2-33-A	Page ( of )
Engineering	7 980
4341 B Street Suite 404 Phone (907) 646-2969 Anchorage, Alaska 99503 Fax (907) 561-5475 Proposed Day (10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Date Stailing
0700-well Inglallation and Decommissioning Diojout consite licheft	Meeting
- tailgate Safaty (Nolly William SENO, Alatana)	
- Bio clearance training (Dowise Duffy = Ussociales)	
0800 - MEC Training - Kenton	
0830 - Mat Co Landf. 11 - Arraval of Facklisht	
- Permal of Supplies	
- Torsen Lary Supplies	
- Load trudes for MORE to MU- OUZ-33-17	
1100 - aprile @ Mw-042-33-A	
- Setup - Total Depth = 150.80	
- Death to water-116.21	
1215 - Mix 19+ Batch of 95% fortland Comment 5% B	en ita
- 33 Gral of water - 6 Bass of partland Conowl (47 Usleach)	
1240 - Dumo ist mixtures down well	
1255 Begin pumpins 2nd Batch of 95% for Hand coment	5 % Betwith
- 33 had at water	
130 & Begin Pumpins 3rd Batch of 85% fortland Comment	5% h. Lucke
- 33 Gal of Units	- ie pession 4
- 6 Bass of partland Coment 4766 leach	
1300 Begin pumping 4th Batch of 95 % partland Center +	5 % Bentowith
- 33 Coal of water - 6 Bass of portland Cenert 474 leach	
1330 Besin pressure test 15 ps I For 15 min	
1345 End Pressure Test	
1346 Besin Chipping away Condicte Menunger	
1410 End Clearing agound will Begin dilling Carry to 5	
- pulled gife up and snopped well as us a Appropriated	5 of well losurs
1945 Monterey County Inspectors on gite Pager Van Hours Chres	he vo, Isrial Tuz
TEXPlained what happened	
1500 Tack equipment to by down yard and to welders shop to	fry and
ille oft site -	
50/21/18	

# **Well Destruction Form**

Location: Monwa	Project: Fort Ord	2018 Event: Well Decom	MISSI Completed by:	Andrew Minch	Date: 8/21/18
Grouting information	Well/boring information				
Well/boring ID	MW-042-33-A				
Date	8/21/18				
Site	042				
Diameter	54				
Total depth	150.8'				
Estimate of grout volume	151 901				
Amount of water (gallons)	132 901				
Amount of cement (bags)	24				
Amount of bentonite (lbs)	56				
Grout weight (lbs/gallon)	12.76/gcl				
Grout volume used (gallons)	180301				
PTW	116.21				

Volume calculation formula: Gal x Depth(ft) = Estimated grout volume

Diameter	Gal	Diameter	Gal
2"	0.2	8"	2.6
4"	0.7	9"	3.3
5"	1.0	10"	4.1
6"	1.5	11"	5.0
7"	2.0	12"	5.9



## INITIAL PHASE INSPECTION COVER SHEET

Contract No.: W91228-14-C-00 Task No.: 10 Location/Project: Fort Ord Will Ins		3/21/2018
Description and Location of Work Inspected:  T dlcom ISSion Mg Kicks  A. Key Personnel Present:	ortard well ins	tallation
Name  1. Holly Dillon  2. Deck Lieberman  3. Mark Fisler  4. Andrew Monik  5. Lin Foster  6. Tim Prysdale  7. Donk Mock  8. Javier Rios  9. Innes Wolfley  10. Lody Reed  Which Herrando Z  Carlos Herrando Z  Carlos Herrando Z  Charles millaney  Matthew Jankson	Position SSHO/ tark lead  PM  File of Sypensor  File of Staff - Inste  OA - Install  PM  Helper  Helper  Helper  Delater - Delan  The light of ist	USACE Yellow Jaket
	Quality Control Manager Signature	

Initial Phase Inspection Checklist						
Assessment Activity	ssessment Activity Assessment Mechanism Person(s) Responsible		Response Action	Completed by/Date		
Beginning of project activity: Is work being performed according to project plans?	Conduct field and laboratory audits.	Project Manager, Quality Control System Manager, Task Manager, Project Chemist, Field staff.	Stop work if audits indicate significant deviation from project plan. Implement immediate or long- term corrective actions.  Communicate deficiencies to USACE Project Manager.	Her 8/21/18		
Early phase of project: Have necessary audits been performed?	Review project phase and check to see if required audits have been satisfactorily completed.	Project Manager, Quality Control Systems Manager	Stop work if reviewer decides that absence of audit jeopardizes successful implementation of project plans. Immediately schedule necessary audits.	Her 8/21/18		
Ongoing throughout project: Are daily Contractor Quality Control Reports (CQCRs) being prepared according to contract requirements?	Review daily CQCRs from field supervisors.	Project Manager, Task Manager, Project Chemist, Project Staff	Correct deficiencies in reports or reporting delays.	Her- 8/21/18		
Ongoing throughout project: Do project plans adequately address any changes in project activities or goals?	Compare data gathered to assess conformance to the project plan and conceptual site model, data quality objectives, and project plan.	Project Manager, Safety and Health Officer, Quality Control System Manager, Task Manager, Project Chemist, Field staff.	Stop work if assessor decides that project plan deficiencies are significant. Implement corrective action to include modification of project plans. Notify USACE Project Manager. Identify data gaps.	78C- 8/121/18		

#### **CONSTRUCTION FOLLOW-UP PHASE INSPECTION**

Contract No.: W91238-14-C-BB48  Task No.:
Project/Area of Inspection: Monitoring Well Decommissioning @ Former Fort Oid, Marina, CA /MW-Oux-33-A
A. Definable Features of Work: Status of Inspection:
MW-012-33-A: Well Decommissioning would was Completed according to Section 5:1 of the July 2018 Final Revision Monitoring Well Decommissioning work flow at Former Fort Drd, CA.  Drd, CA.  Dring the process of dilling the monitoring well comes porty the dill
Dising the process of dilling the monitoring well cigues mut, the dill bit became study in the conductor pipe, when the pipe was fulled up, the well casing Come up with it (Approx 5'), the well caging was ent at the surface. The Drill bit was taken to the
Shop to have the Conductor Cours removed. The dillers will
cover with congrete.
No disruptions to losal businesses or residents mas noticed.
Mil
Quality Control Manager

## FOLLOW-UP PHASE INSPECTION CHECKLIST

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Reporting phase of project: Have data reports been prepared in accordance with project plans?	Compare data reports to specifications detailed in planning documents.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	An/ 4/21/18
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements?	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	Mn/6/21/18
Have other definable features of work been completed in accordance to project requirements?	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	Mn/06/21/18

1	DAI	LY DRILL REPORT	CLIENT:	Lina		8.8					PAGE	OF	1
/=	20	YELLOW JACKET DRILLING	DRILLING LOCA	TION: Ma	ina	CA	X 200				DATE:	8-21	-18
1		SERVICES	YJD JOB NO:	12-080	3CA	НО	F#				RIG #:	142	
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400	900	Jatety mueting				FOOTAGE I	ORILLED TO	5				Bags: Asphalt	
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lann	300	di le col			1	DA	TE				24	Bags: Portland Type	
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- 344		Conductor to get torch our					FROM				1	Bags: Bentonite Gel	owder
400	500	1000 - 10 6000				SAND	FROIVI				4	55 Gal. Drums - 17H	
100	500	diva to hotal				PACK	TO						Sample Liners
1798							FROM				7	Visqueen Tarps 6 mil	
						BLANK CASING						Sono Tube	
Trail Co.	12						ТО						
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4						SCREEN	то		THE TANK				
						10						15.5.0	
	4 W					CLINAD	FROM		2		Marie Contract		High-Tree-
					1000	SUMP	то			=			
	and the	ALDESON DAY DIVERSION OF THE RESIDENCE		33.00			WATER					DESCRIPTION	UNIT NO.
						ES	LEVEL					DRILL RIG:	109
		EMPLOYEE'S NAME	HOURS	PER DIEM	INITIALS	DINAT	LAT.					PIPE TRUCK:	
E-19.13	DRILLER:		11 1/	60	D IX	OOR	LONG.					CREW TRUCK:	3 96
YED	Blia	n Hullander	11.15	PES DR NO	3.4	GPS COORDINATES	LONG.					STEAM CLEANER	
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	AND DESCRIPTION OF THE PARTY OF					FE 1944	900	SANSAS BEDDE A COMPANY			-17		

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#### AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

Date:

**GENERAL DATA** 

Tracking Log.

Comments/Field Notes:

ALITAIA Site Managery 12 20 1 12/2				AHTNA SSHO: HOLLY DA	1	$\frac{1}{2}$	<u> </u>	. 1
AHTNA Site Manager: Derck UR ber					10	1		
DOCUMENTATION OF WORKDAY SAFETY M			•					
Well installation + dec	DM	11	SSI	oning kickoff				
Other items to address as appropriate (chec	k th	ose	dis	cussed):				
Scope of day's work					<b>□</b> Re	ece	nt ne	ear miss / injuries / lessons
Site SH&E Plan / Revisions		Ø						fety / Materials Handling
AHA's / PTSP's completed/reviewed?	Electrical Hazards						laza	rd Triggers <sup>1</sup>
Emergency SOPs (i.e. rally pt., tele #s)		×	St					er Controls <sup>2</sup>
Communications Check								eat, noise, trench, confine sp)
PPE Requirements	Þ	/		Primary Hazards	10	ń١	inc	theks poisonank
MEETING ATTENDEES: (place * next to sub-	cont						J	
NAME / COMPANY				Como Umorano	ΙΑΜ	E/	CON	IPANY
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				Of the Man	4	4	1.1	/
MANUX FISLER / HITTHA				Charles Minto	ne	4	4	Mory Jacket
JIM DRYSDALE/USACE				Modry Il Se	h		/	of Slatura
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Cod (Cod / 900)					//	411	1	- A
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SUBCONTRACTOR SAFETY REPS COMMENTS	?			•	-			
			_			_		
DAILY INSPECTIONS: (SSHO shall initial each	h co	mp		d applicable inspection item)	1			
Y N N Inspection Item	Y	N	N	Inspection Item	Y	N	N A	INSPECTION ITEM
A Postings/Plans (APP) readily avail.		п	Α	Signs (No Smoking, Site Control)	0	0		OTHER (List)
Designated Parking / Traffic Control				PPE(head/eye/foot/hand/ear/body)	1			
□ □ □ Subcontractor Safety Rep Involved			*******	Hi-Vis, PFD's, Ring Buoys, Etc.				
□ □ □ Subcontractor / Task AHA's			-	Excav./Trench/Spoils Protection	-			
□ □ □ Subcontractor Equip. Inspections				Confined Spaces Management				
☐ ☐ Emergency Equip. (PFE's, FA Kits)				Physical Barriers / Covers				
□ □ □ Eye Wash / Shower				Fall Hazards (Protected)				
□ □ □ Communications Check				Ladders				SSUES TO FOLLOW-UP
□ □ □ Sanitation (Toilets, Hand Wash)				Power & Portable Hand Tools	(1	mm	edia	tely Correct Deficiencies if able)
□ □ □ Water & Shade, Non-Pot Identified				Company Field Equipment				
□ □ □ Utilities Identified / Controlled				Alarms / Seatbelts				
□ □ □ Material Storage Proper			1	GFCI's, Whip-Checks, Slings	-			
□ □ □ Lay Down Areas Orderly			-	Exposed Rebar Protected	-	_		
□ □ □ Waste Containers	무		-	Safety / Health Behaviors:	1		-	
□ □ □ Spill Control (Pads Snakes Drums)			111	Competent / Qualified Persons	1			

I acknowledge that above elements performed (SSHO/Inspector signature):

Immediately Correct any deficiencies. Note any uncorrected deficiencies on the APP Safety and Occupational Health Deficiency

<sup>&</sup>lt;sup>1</sup> BBS Triggers: (e.g. Distractions, rushing, short-cuts, frustration, exhaustion, complacency, anger, multi-tasking, mind elsewhere)

<sup>&</sup>lt;sup>2</sup> BBS Trigger Controls: (e.g. communicating, accountability, patience, relaxation techniques, healthy lifestyle, and adequate sleep). Ahtna Daily Site Safety Tailgate / Inspection Log, version: August 2014



GENERAL						
1) USACE Contract No.:	W91238-14-C-0048	2) Date:	8/22/2018			
3) Program Manager	Derek Lieberman	4) Report No.:	D-2			
5) Project Manager:	Derek Lieberman	6) SSHO (Designee):	Holly Dillon			
7) Superintendent:	Mark Fisler	8) QC Manager:	Andrew Mauck			
9) Weather:	Overcast	10) Temperature:	60-70			

SUMMARY						
11) Work Performed:						
	ning Monitoring Well MW-OU2-33-A by drilling out the monitoring well pipe concrete on top of the pipe. Decommissioned Monitoring Well MW-BW-64-A.					
12) Project Issues:	None					
13) Unresolved Issues:	None					

	CONTRACTO	R PERSONNEL					
14) Prime Contractor and	d Subcontractor Onsite:						
Name	Company	Position/Title					
Andrew Mauck	Ahtna	Field Technician / QC Manager					
Holly Dillon	Ahtna	SSHO					
Don Kinloch	Yellow Jacket	Project Manager					
Brian Hernandez	Yellow Jacket	Driller					
Javier Rios	Yellow Jacket	Helper					
James Wolfley	Yellow Jacket	Helper					
	GOVERNMEN	IT PERSONNEL					
15) Government Personr	nel Onsite:						
Name	Company	Position/Title	Arrive/Depart (Day)				
Bruce Van Etten	USACE	Oversight	1005/1600				
Tom Ghigliotto	Chenega	Oversight	1205/1240				

VISITING PERSONNEL						
<b>16)</b> Visitors Onsite:						
Name	Company	Position/Title	Arrive/Depart (Day)			
Roger Van Horn	Monterey County	Environmental Inspector	0830/1050			
Christie Vo	Monterey County	Environmental Inspector	1300/1430			

DETAIL
17) Attachments:
1. Field Notes
2. Well Destruction Form
3. Follow-Up Phase Inspection
4. Yellow Jacket Daily Drill Report
5. Safety Tailgate
18) Report Submitted by: Andrew Mauck



19) Photos



Description: MW-OU2-33-A after Well Decommissioning.



Description: 95% Portland Cement / 5% Bentonite is mixed and Pumped in the well with a tremie pipe at MW-BW-64-A.





Description: Monitoring Well Pipe is drilled down 5' at MW-BW-64-A.



Description: MW-BW-64-A after Well Decommissioning.

Ahtna Engineering	Description: Mu-B	Decomposes on	". Mw Ou 2-33	<u>-A</u>	Page	_of <u></u> _
4341 B Street Suite 404 Phone (907) 646-2969	Prepared By: And	1 11			Date <b>4/27</b>	118
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0930 - Prossurite u	sell PIRE 15P	of for 15 mi	)			
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0946 - Finish Bushing	out Convele					
- Find Pressure	a Grout Fille	d pipe				
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1005 - Bruce Vow E	de crote las 2	Cleaning				
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- Get up						
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70 128.0	35					
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1218 Res. 4 Pumpins	f gas	1 501	Am Parita			
6 1945 5	of faitland	-cones 10	mentar.	++-		
33 561	of water					
1215 - 40 Left	of water					
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	at water					
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1224 0 39 90 1	of water	11.1 1	N			
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Al	ntna ineering	Description: well for	1-64-A	IW-1242-33-A	Page 7	of <u></u>
	ineering Suite 404 Phone (907) 646-291				1	3/2/8
Anchorage, Alas	ska 99503 Fax (907) 561-54	Prepared By: Paydo	w Manch		Date	112687
244 1	R. Washingt	4 L 16 Ms	15 min			
1259 1	Finish Pressure	Test				
325 F	Il pipe up to	Test freomer of well	re lest			
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## **Well Destruction Form**

Location: Mariwa	Project: Fort Ord	ZOI G Event: Weil Decommos Completed by:	Andrew Manchate:	8/22/18
Grouting information	Well/boring information			
Well/boring ID	MW BW 64A			
Date	4/22/14			
Site	OUCTP			
Diameter	5"			
Total depth	127.05			
Estimate of grout volume	127601			
Amount of water (gallons)	190			
Amount of cement (bags)	34.5			
Amount of bentonite (lbs)	81		1	
Grout weight (lbs/gallon)	13.15			
Grout volume used (gallons)	250			

Volume calculation formula: Gal x Depth(ft) = Estimated grout volume

Diameter	Gal	Diameter	Gal
2"	0.2	8"	2.6
4''	0.7	9"	3.3
5"	1.0	10"	4.1
6"	1.5	11"	5.0
7"	2.0	12"	5.9



### CONSTRUCTION FOLLOW-UP PHASE INSPECTION

	tract No.: $\frac{W9/238-14-C-0048}{4.000}$ Date: $\frac{8/22/2018}{4.000}$
Loc	k No.: 10.9 cation/Project: Monitorius well Decomunistionius Former Fort Ord, Marine, LA
Fo	roject/Area of Inspection: Monitoring Well Dersimmissioning @ Former ort Ord, Marina, CA /MW-042-33-A, MW-8W-64-A
A.	Definable Features of Work: Status of Inspection:
	MW-OUZ-33-A. MW-BW-GY-A: Well Decommissionins Work
	MW-OUZ-33-A MW-BW-64-A Well Decommissioning Work was completed according Section 5.1 of the July 2018 Final Revision Menitoring well Decommissioning Work Plan
	at Former Fort Ord, EA
	No disreptions to local businesses or residents was noticed.
	$\mathcal{A}$
	Quality Control Manager

## FOLLOW-UP PHASE INSPECTION CHECKLIST

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
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After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements?	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	Mar/19
Have other definable features of work been completed in accordance to project requirements?	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	Make Strills

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				01	-0			CONCRETE	CONCRETE	CONCRETE		Bags: Sand-Grade	THE TOUR
		MW-VWGHQ				CEMENT	FROM					Bags: Sand-Grade	William Control
1	1-	1 / /	17			GROUT	то				F-13-11	" x 5' Casing:	PVC/SS
100	130	lunch / D.16SUYE	Wall						1			" x 10' Casing	g: PVC/SS
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		day					rno					Bags: Bentonite Gel F	owder
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	64						то						
	- 3				7.		WATER			SECTION 100		DESCRIPTION	UNIT NO.
		William Control				S	LEVEL				1 300	DRILL RIG:	147
		TAND OVER NATUR	House	DED DIESE	INITIALO	GPS COORDINATES	LAT.		ng konforta		12.	PIPE TRUCK:	
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	DRILLER:			(ES OR NO	0.11	00	LONG.					CREW TRUCK:	386
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	- 1/						10	The second second	Marie Balletin Paris				

### AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

Site: <i>FFO, Maxima</i> , c/1 AHTNA Site Manager: <i>Decele Licherma</i> . DOCUMENTATION OF WORKDAY SAFETY N				Date: Sla	2//	8	/	4
		119	140	Site Location: Mw-ou	-3	7-	14;	Mw-Bw-64-14
OCUMENTATION OF WORKDAY SAFETY N	-			AHTNA SSHO: Cholly Die	110-		17.	11000
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Other items to address as appropriate (che	Contract of the last			's Focus Four		2000	nt no	ear miss / injuries / lessons
Scope of day's work Site SH&E Plan / Revisions	-	-		all Hazards				ety / Materials Handling
■ AHA's / PTSP's completed/reviewed?	-	_		ectrical Hazards			_	rd Triggers <sup>1</sup>
■ Emergency SOPs (i.e. rally pt., tele #s)				truck-by Hazards				er Controls <sup>2</sup>
☑ Communications Check				aught in / between Hazards				at, noise, trench, confine s
PPE Requirements				r Primary Hazards			·	
ΠΕΕΤΙΝ <b>G ATTENDEES: (</b> place * next to sub	bcon	tra	ctor	safety representatives)	4.41	1,11	3,45	AND AND STREET
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GUBCONTRACTOR SAFETY REPS COMMENTS	<u></u>			-			-	
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	ch co	amc	olete	ed applicable inspection item)				
DAILY INSPECTIONS: (SSHO shall initial each					-	T	N	INSPECTION ITEM
Y N N Inspection Item	Y	N	N	Inspection Item	Y	N		
Y N N Inspection Item		N	A	Inspection Item			A	OTHER (List)
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BBS Triggers: (e.g. Distractions, rushing, short-cuts, frustration, exhaustion, complacency, anger, multi-tasking, mind elsewhere)
 BBS Trigger Controls: (e.g. communicating, accountability, patience, relaxation techniques, healthy lifestyle, and adequate sleep).
 Ahtna Daily Site Safety Tailgate / Inspection Log, version: August 2014



GENERAL							
1) USACE Contract No.:	W91238-14-C-0048	2) Date:	8/23/2018				
3) Program Manager	Derek Lieberman	4) Report No.:	D-3				
5) Project Manager:	Derek Lieberman	6) SSHO (Designee):	Holly Dillon				
7) Superintendent:	Mark Fisler	8) QC Manager:	Andrew Mauck				
9) Weather:	Overcast	10) Temperature:	60-70				

SUMMARY						
11) Work Performed:						
Decommission Monito	ring Wells MW-02-12-180 and MW-BW-29-180.					
12) Project Issues:	None					
13) Unresolved Issues:	None					

	CONTRACTOR	PERSONNEL	
14) Prime Contractor	and Subcontractor Onsite:		
Name	Company	Position/Title	
Andrew Mauck	Ahtna	Field Technician / QC Mar	nager
Holly Dillon	Ahtna	SSHO	
Don Kinloch	Yellow Jacket	Project Manager	
Brian Hernandez	Yellow Jacket	Driller	
Javier Rios	Yellow Jacket	Helper	
James Wolfley	Yellow Jacket	Helper	
	GOVERNMENT	PERSONNEL	
15) Government Pers	onnel Onsite:		
Name	Company	Position/Title	Arrive/Depart (Day)
Bruce Van Etten	USACE	Oversight	0700/1630
Tom Ghigliotto	Chenega	Oversight	
	VISITING PEI	RSONNEL	
<b>16)</b> Visitors Onsite:			
Name	Company	Position/Title	Arrive/Depart (Day)
Roger Van Horn	Monterey County	Environmental Inspector	0740/1050
Christie Vo	Monterey County	Environmental Inspector	1300/1500
Matthew Johnson	Denise Duffy & Associates	Sr. Env. Scientist	0700/1140
Max Hofmarcher	Denise Duffy & Associates	Assistant Env. Scientist	0700/1700

DETAIL						
17) Attachments:						
1. Field Notes						
2. Well Destruction Form						
3. Follow-Up Phase Inspection						
4. Yellow Jacket Daily Drill Report						
5. Safety Tailgate						
6. Jobsite Safety Inspection Checklist						
7. Hot Work Permit						
25) Report Submitted by: Andrew Mauck						



#### Photos:



Description: Denise Duffy & Associates Placing Flags out to set the boundaries.



Description: Sand Mats are placed down to protect the bank and the surrounding fauna.





Description: 95% Portland Cement / 5% Bentonite is mixed and Pumped in the well with a tremie pipe.



Description: Pulling the MW-02-12-180 Vault up to be cut.





Description: Concrete Cap at 1' Bgs at MW-02-12-180.



Description: MW-02-12-180 after Well Decommission





Description: 95% Portland Cement / 5% Bentonite is mixed and Pumped in the well with a tremie pipe at MW-BW-29-180.



Description: Breaking apart the surrounding Concrete at MW-BW-29-180.





Description: Concrete Cap at 1' Bgs at MW-BW-29-180.



Description: MW-BW-29-180 after Well Decommission.

Ahtna Description: Description: Mw-Bw-29-186	· 02-12-180
mw-Bw-29-186	Page 1 of 2
Engineering	
4341 8 Street Suite 404 Phone (907) 646-2969	Date 8/23/18
Anchorage, Alaska 99503 Fax (907) 561-5475 Prepared By: Wordson March	- 22-00 V
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- H. H. + Sat. 1-	
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- worked on plante	
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0830 Bes w dropping Fill pipe in Monito	- Wy men 110 - 02-12-160 1
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7 70 706.67	
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- 37 and of 1404	
0857 - Beg. w pumpins 2nd Batch of 50/0 Benton:1 6 Bass (47 Us) of Partland Cement	
0857 - Beg. w pumping and Batch of 50/0 Benton!	
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- 6 Bass (47/65) of Parland Comment  1454 Besin Pumping 5th Batch of Portland Comment 95% /5 Bow townit  - 7 Bass (47/65) of portland Comment  - 33 gal of Water  1505 Besin Pump Test 15 psz /15 ms  1520 End Pum, Test  1530 Hot work Permit issued to trim stone Pipe to  1535 - refilled w/ Comment Mick  1537 - Besin Pressure Test 15 pst /15 min  1552 - find prossure Test 15 pst /15 min  1553 - hosin prossure Test /15 pst /15 min  1553 - hosin prossure Test /15 pst /15 min  1554 - hosin pst /15 pst /	177741	water				
1994 Begin Plan 1995  - 7 Begs (47/44) of portland Consent 15/2 50 Bow House Lement  - 33 gal of Water  1505 Begin Pimp Test 15 psz /15 m -  1520 End Pimp, Test  1530 Hot work Permit issued to tring stone Pipe to  1535 - ref. Hed w/ Comment Mix  1537 - Begin Pressure Test 15 pst /15 min  1552 - Find prossure Test  1553 - Perin Suglin, Concrete & Removal cof Standpipe  1553 - Perin Lander Concrete & Removal cof Standpipe  1553 - Ping Lander Concrete & Removal cof Standpipe  1553 - Ping Lander Concrete & Removal cof Standpipe	- la Bass	47/65) of	Partland Comen	7	,	
1530 Hot work Permit issued to trim stone pipe to 1535 - ref. Hed w/ Cement onix 1537 - Begin pressure Test 15 pst/15 min 1552 - Find pressure Test 1553 - Begin basher Test 1353 - Begin basher Concrete & Removal cet Standpipe 1630 - Pinst Destruction of Monument, 3 fampipe, and Scaled	1454 Begar Plumping	1/99/ 01	11011 Jan Curati	Comm 1 95 /2	15%	Bow Howit
1535 - ref. Hed w/ Cement Mix  1537 - Begin pressure Test 15 pst 15 min  1552 - Find prossure Test  1353 - Begin Gardin, Concrete & Removal cet Standpipe  1630 - Final Destruction of Monument, 3 larepipe, and Scalest	1520 17.12 111. 9 10	5 /			2	¥22
1552 - Find proseure Test 1353 Besin Gardin, Concrete & Removal cut Standpipe 1630 - Pinat Destruction of Monument, I tompipe, and Section	1535 - ref. Hed w/ C	ement m	'X		p.pe	
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1740 - 0 Landfill pig for tomoron 1800 - Leave Landfill for day  23/14	Caging.	ef For	10-	y pe, aw		
	1740 - @ Landfill 1800 - Lear Landfill	11 Pies F	day tomorrow			
723/14						
423/14		7	10			
	123/14					

## **Well Destruction Form**

Location: Marma Project: Fort Ord Event: Well Decomme 1005 Completed by: Andrew Manche Date: 9/23/14

Grouting information	Well/boring in	formation			
Well/boring ID	MW-02-12-18	10 MW-BW-29-180			_10
Date	4/23/14	8/23/18			
Site	2/12	ouctp			
Diameter	4"	5 11			
Total depth	128.69	220,8	e,		
Estimate of grout volume	90	221			
Amount of water (gallons)	81	165			
Amount of cement (bags)	15	31			
Amount of bentonite (lbs)	35	72.85			
Grout weight (lbs/gallon)	12.87	12.91			
Grout volume used (gallons)	110	225			

Volume calculation formula: Gal x Depth(ft) = Estimated grout volume

Diameter	Gal	Diameter	Gal
2"	0.2	8"	2.6
4"	0.7	9"	3.3
5"	1.0	10"	4.1
6"	1.5	11"	5.0
7"	2.0	12"	5.9



## CONSTRUCTION FOLLOW-UP PHASE INSPECTION

Contract No.: W91238-14-C-0048	Date: 5/23/2018
Task No.: 10,9 Location/Project: Mouston Well Decommes	Complete
Former Fort Ord, Marins,	14
Former For Ord, Morno,	CH
Project/Area of Inspection: MA / (4)	Down to a to Mer Kit
Project/Area of Inspection: Moniforms Well Ord, Marina, LA / MW-02-12-180	MULTING OF ICIA
Via, Marina, 614 / 1010 02 12 100	: mw igw 21 (50
4 2	48 85 8
A. Definable Features of Work:	Status of Inspection:
MW-02-12-180, MW-BW-29-180:	
MW-62-13-130 MW 1300 21 100	West accommissioning inothe
was completed according to sect Final Revision Monitoring Well	Decamposition of the July Died
at Former Fort Ord WA.	ERLOMINISSIONING WATE FIELD
0 1010 g 10 10 10 10 10 10 10 10 10 10 10 10 10	8 2 8 9 2 3 7
No discustioners to local busines	ses, residents, plants, or
wildlife was noticed.	급증병하는 결국(당) 본 기 보
4.4	<u> </u>
	27287 1277 12
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10	
Quality Cont	rol Manager

## FOLLOW-UP PHASE INSPECTION CHECKLIST

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Reporting phase of project: Have data reports been prepared in accordance with project plans?	Compare data reports to specifications detailed in planning documents.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	9/23/16
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements?	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	An 4/23/16
Have other definable features of work been completed in accordance to project requirements?	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	Phr / 15/23/16

	DAI	LY DRILL REPORT	CLIENT:	Ahtu	4			at many			PAGE	1	OF _	
7	10	YELLOW JACKET DRILLING	DRILLING LOCAT	ION: MC	ville,	Ca			3		DATE:	9-	23-18	7.
		SERVICES	and the second second second	8.080			LE#		. Bu(7) 100		RIG #:	10	17	
FROM	то	DESCRIPTION	ON OF ACTIVITIES			ПО	LC #	NW-0212180	NW-BWZLIED		QTY	CONST	RUCTION SUPPLIES	
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120	anny	1	1									Flush Traffic Va	ult: Size	
€30	700	Dutaty Incoting				FOOTAGE	DRILLED TO	1	1			Bags: Asphalt		77.5
700	1200	di di	- 1						3			Bags: Concrete		
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	13.		1					CONCRETE	CONCRETE	CONCRETE		Bags: Sand-Gra		
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CLIENT APPRO	DVAL:	1//					TO						-11	- 45
	16						10							

### AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

				Date: 9/23/19	5			S. Acres Constitution Constitution
Site: FFO, Maria, UA	125	.3	ang	Site Location: Mw- 0カー1ナ	-18	9 1	M	w-BW-29-180
AHTNA Site Manager: Perch Lichian	1am	-		AHTNA SSHO: Hally Di			di.	
DOCUMENTATION OF WORKDAY SAFETY N	1EET	ING	(Li	ist Topics of Discussion):				
Other items to address as appropriate (che	ck th	ose	dis	scussed):				
Scope of day's work				A's Focus Four				ear miss / injuries / lessons
Site SH&E Plan / Revisions				all Hazards				fety / Materials Handling
<ul><li>□ AHA's / PTSP's completed/reviewed?</li><li>□ Emergency SOPs (i.e. rally pt., tele #s)</li></ul>				lectrical Hazards truck-by Hazards				rd Triggers <sup>1</sup> er Controls <sup>2</sup>
Communications Check				aught in / between Hazards				eat, noise, trench, confine sp
PPE Requirements	Ø			r Primary Hazards	~	CITC	. (	in in its and
MEETING ATTENDEES: (place * next to sub	cont	rac	tor	safety representatives)	733	35	3716	TORIST POLICE IN
NAME / COMPANY					NAN	IE /	CON	ΛPANY
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Bray Handander -	Y	)	<u>y</u>	CAMIRITO A2		$\vdash$	13/4	onterey County
Mille								
lax Walkell								
SUBCONTRACTOR SAFETY REPS COMMENTS								
_								
DAILY INSPECTIONS: (SSHO shall initial eac	h co	mp	lete	ed applicable inspection item)			_	
DAILY INSPECTIONS: (SSHO shall initial each	h co		ete N A	ed applicable inspection item)  Inspection Item	Y	N	N A	INSPECTION ITEM OTHER (List)
Y N A Inspection Item  Postings/Plans (APP) readily avail.	Y	N	N A DL	Inspection Item Signs (No Smoking, Site Control)			A	
N N A Inspection Item Postings/Plans (APP) readily avail. Designated Parking / Traffic Control	Y	Z 0 0	N A DL	Inspection Item Signs (No Smoking, Site Control) PPE(head/eye/foot/hand/ear/body			A	
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<sup>2</sup> BBS Trigger Controls: (e.g. communicating, accountability, patience, relaxation techniques, healthy lifestyle, and adequate sleep).

Ahtna Daily Site Safety Tailgate / Inspection Log, version: August 2014

	Pro	oject Site:	C	P		Date: 8-23-18
Act	tiviti	es Onsite: De Commission MW-1	bu	201	- KA	)
ı	Proje	ect Manager: Derek Leiberman Si	te Sup	ervis	or:	Endrew Manck
		Weather: partly somy wos	Sit	e SSH	0:	toly pillar
		Inspection Criteria	Yes	No	N/A	Comments
A.	Ger	neral				
	1.	Emergency phone numbers and procedures available?				
	2.	First aid supplies readily available?	1			
	3.	First aid supplies adequate for job manpower?	0			
	4.	Health and Safety Board posted and all materials present?	V			
	5.	Bathroom and washing facilities available within 10 min of site?	L	1		
	6.	Drinking water available 2 gallons per employee?	/			
	7.	Shade available for >80°F within 5 min walk?			berry	
	8.	Daily safety tailgate meeting performed?	V			
	9.	Site Safety Plan (Accident Prevention Plan) available?	V			
	10.	Are Safety Data Sheets (SDSs) available onsite?	V			
	11.	Safety exclusion zone (EZ) setup onsite?			1	7
	12.	Pedestrians and traffic protected from onsite activities?			2	
	13.	Silica exposure and controls in place?			1	
	14.	Lead exposure and controls in place?			1	
	15.	Confined space procedures in place?			1	
	16.	Asbestos exposure and controls in place?		7	lucar	
	17.	Weather conditions monitored and safe for activities?	0			
B.	Pers	sonal Protective Equipment			r Practice	PT NO TEXTS ON THE STATE OF THE STATE OF
	1.	Hard hats worn by all personnel in work areas?	1/			
	2.	Eye protection worn as required?	i			
	3.	Hearing protection worn as required?	V			
	4.	Safety vests worn as required?				
	5.	Safety boots worn as required?	V			
	6.	Respiratory protection worn as required?	V			Groot witer
	7.	Fall protection worn as required?		1	سنا	
	8.	Workers dressed properly for the job?	1			

		Inspection Criteria	Yes	No	N/A	Comments
	9.	Personal protective equipment in good condition?	~			
c.	Hou	usekeeping		8.74		Cycle and analysis of the
	1.	Walkways and stairs kept clear of material and debris?				
	2.	Cords and hoses strung to prevent trip and fall hazard?	~			
	3.	Are liquid spills cleaned up immediately?	V			
	4.	Restrooms and eating areas clean?			V	
	5.	Work areas clean and orderly?	1			
	6.	Site trailers clean and orderly?			1	
	7.	Spill kit and garbage bags available onsite?		1		
	8.	Trash, scrap, and debris picked up and disposed of?	V			
D.	Fire	Protection				ignored to the same of the later
	1.	Fire-fighting equipment well marked and accessible?				
	2.	Fire extinguishers inspected and charged?	1			
	3.	Smoking prohibited where flammables are located?	اسا			
	4.	Flammables stored and handled in approved containers?			1	
E.	Mat	terial Handling and Storage		1		and a contract of the second
	1.	Materials stored neatly in stacks or piles?	1	,		
	2.	Cylindrical materials racked or cribbed and blocked?	V	_		
	3.	Loose materials containerized or palletized?	~			
	4.	Space maintained around stored materials?				
	5.	Storage areas kept clear of scrap, debris, and trash?				
F.	Too	ls			V	
	1.	Power tools have guards in place?	*			
	2.	Power tools either grounded or double insulated?				
	3.	Power tool cords and plugs in good condition?				
	4.	Broken tools repaired or replaced as needed?				/
G.	Wel	ding and Cutting			1	
	1.	Gas cylinders stored upright and secured?				
_	2.	Oxygen cylinders segregated from fuel gas cylinders?				
	3.	Full cylinders segregated from empty cylinders?				
	4.	Caps secured on all cylinders not in use?				
	5.	Welding leads in good condition?				
	6.	Welding screens erected in high flash areas?				
	7.	Welding blankets used to protect materials/equipment?				

		Inspection Criteria	Yes	No	N/A	Comments
	8	Fire watches posted as needed?				
-	9.	Proper permits issued (as required)?				
	10.	Fire extinguishers kept close to hot work areas?				
н.	Elec	trical	919 Gaysa	3 68 3		lare establishes on pedio 8.
	1.	Extension cords heavy duty, 3-wire type?				
	2.	Temporary lights equipped with bulb guards?				
	3.	Sufficient lighting to work and move safely?				
	4.	Lockouts used to de-energize operational systems?				
	5.	Arc-Flash protection in place?				
I.	Lade	ders	i se alion	the str	1-	In the same very series and the same
	1.	Straight ladders secured at top landing?				
	2.	Straight ladders extend 36" above top landing?				
	3.	Straight ladders have feet or blocked at bottom?				
	4.	Straight ladders set up with a 4 to 1 slope?				
	5.	Top step of stepladders not used as a step?				
	6.	Climbing the back of stepladders prohibited?				
	7.	Workers use the proper height ladder for the job?				
J.	Scaf	folds and Manlifts	ing mose i	1923	1	Action of the second second second
	1.	All scaffold parts and hardware used as required?				
	2.	All scaffold hardware and parts in good condition?				
	3.	Scaffolds fully planked?				
	4.	Scaffolds have guardrails, midrails, and toe boards?				
	5.	Wheels on rolling scaffolds locked during scaffold use?				
	6.	Manlifts in good operating condition?				
	7.	Only trained employees allowed to operate manlifts?				
	8.	Outriggers extended when manlifts are in use?				
	9.	Workers prohibited from exiting raised manlifts?				
	10.	Workers only allowed to work from floor of basket?				
	11.	Workers required to tie-off while basket is raised?				3
K.	Exca	avation and Trenching	sterior		2	significant production of the second significant second se
	1.	Excavations 5' or deeper shored, sloped, or boxed?				
	2.	Workers stay within shored area?				
	3.	Excavated spoil stored at least 2 feet from trench edge?				
	4.	Barricades placed on all open sides at end of shift?			-	

		Inspection Criteria	Yes	No	N/A	Comments
	5.	Ladders placed every 50' for entry and egress?				
	6.	Excavations de-watered as needed?				
	7.	Backfill placed as soon as possible?				
	8.	Underground utilities identified prior to excavation?				
	9.	Dust control in place?				
	Emp	oloyee Communications		ALL A	No.	SUMMER TO THE SECOND
	1.	Do foremen communicate with their crews on job methods?	l			
	2.	Do foremen react to employee safety recommendations?	L			
	3.	Do foremen address unsafe actions and conditions?	L			
	4.	Are safety meetings held weekly with all employees?	-			
vı.	Veh	icles and Traffic Control		0.50	1057365	Section their depole
	1.	Is there a designated place for site vehicles?	1			
	2.	Is fueling conducted onsite?		1		
	3.	Traffic cones placed appropriately around jobsite activities?			1	
	4.	Gasoline contained in appropriate containers?			-	/
	5.	Spotters used for equipment mobilization?	L			
٧.	Dril	ling		11.44	in the	al distance a being production of the
	1.	Does the drill rig have operable emergency stop switches?	L			
	2.	Is there a soil bin, soil hopper, and forklift onsite?			L	
	3.	Is the wench used to lift auger sections?		*	2/	
	4.	Are pinch/rotating point hazards identified?	W		*	
_	5.	Is the forklift operator performing operations safely?	yar		/	
•	6.	Is the drill rig operator performing operations safely?	L			
	7.	Is the helper performing activities safely?	-	-		
	8.	Minimum 10 feet distance from overhead high voltage lines?	1			
-	9.	High winds present (>30 mph)?				
<b>)</b> .	Safe	Behavior Section 1985	· Alle		10.40	
	1.	Does everyone have stop work authority?	V			
	2.	Are all onsite personnel performing work safely?				
_	3.	Are all onsite personnel attending the safety tailgate meetings?	L		/	
	4.	Does anyone onsite have any safety concerns?	6	XV		
	Add	itional Items, Deficiencies, or Corrective Actions		200		El Carlo San Car
	1.					-
	2.					

	Inspection Criteria	Yes	No	N/A	Comments
3.					
4.					
	s / Sketches / Pictures			No Selection	

**Inspection Completed By:** 

Signature:



## **HOT WORK PERMIT**

Departme	nt <u>f</u>	the	ma Si	0_					_ Proje	ect -	Fortard	
This will pe	ermit	a	pritte	S}€ (ident	ify craftsp	erson)	Yell	loujac	<b>∠</b> /to p∈	erform h	ot work	
Work desc	cription:		MW-	300	29-(identify)	80,14w iob to be do	ne ana	gnition	1 source	)	O.A. Mus-Bu	12-
On	St	e)	identify equi		-; Bulf La	At At	Mu	W-BW		.   -  -  -  -  -  -  -  -  -  -  -  -  -		_
Date of wo	ork 8	1/2	3/16	Date	permit ex	pires	8/2	19/K				
From	020	0	am/pm	То _	5	am (pm						
Extend to Extend to			am/pm am/pm	Date _ Date _		_ By _ By						-
<b>Equipmen</b> Material S			edeet available	from sigr	ner: 🗌 Ye	es 🗌 No						
Equipmen	nt Conditi	ion (c	heck/write i	n equipm	ent condit	ions that a	pply)					
Yes N	No N,	I/A	Out of servi	ce				Yes	No	N/A	Electricity	
		=	De-pressure Drained	d							locked out Driver blocked Nitrogen purged	
			Empty Valves close Lines blinde Lined uncou Overall equi	d pled	spected ar	nd safe to w	vork				Steamed out Water washed Vents open Bleeders open	



	<del></del>			
as Tests Required				
Туре	Time	% PPM	INST #	Tester
	write in fire protectio			
Ground welding m Stop hot work if h		LEL mor Area we Charged rk Notifica d Ventilat natural		
mments:				
rsonal Protection (ch	neck/write in persona	l protection required)		
		Impervious gloves	Other (specify	y)



Hot Work is authorized: Yes	No		
Welding check-off completed Pre-tap check-off completed	Yes No	<u>By</u>	_
Issued by:	Dillar	Title:	
Return of permit required: Ye Returned by		t am/pm	Date
Job completed: Yes No			
Extension of point required:	es No		



GENERAL					
1) USACE Contract No.:	W91238-14-C-0048	2) Date:	8/24/2018		
3) Program Manager	Derek Lieberman	4) Report No.:	D-4		
5) Task Lead:	Holly Dillon	6) SSHO (Designee):	Holly Dillon		
7) Superintendent:	Mark Fisler	8) QC Manager:	Andrew Mauck		
9) Weather:	Overcast	10) Temperature:	60-70		

	SUMMARY				
11) Work Performed:					
Decommissioned Soil V	apor Extraction Wells MW-BW-68-A, MW-BW-69-A, and MW-BW-70-A.				
Decommission Monitoring Well MW-BW-62-A.					
12) Project Issues:	None				
13) Unresolved Issues:	Did not Finish Decommissioning MW-BW-62-A				

	CONTRACTO	R PERSONNEL		
14) Prime Contractor and	Subcontractor Onsite:			
Name	Company	Position/Title		
Andrew Mauck	Ahtna	Field Technician / QC Manager		
Brian Hernandez	Yellow Jacket	Driller		
Javier Rios	Yellow Jacket	Helper		
James Wolfley	Yellow Jacket	Helper		
Holly Dillon	Ahtna	SSHO		
Brittan Carlson	Ahtna	Environmental Scientist		
	GOVERNMEN	T PERSONNEL		
15) Government Personn	el Onsite:			
Name	Company	Position/Title	Arrive/Depart (Day)	
Bruce Van Etten	USACE	Oversight	0740/1730	

VISITING PERSONNEL							
16) Visitors Onsite:							
Name	Company	Position/Title	Arrive/Depart (Day)				
Roger Van Horn	Monterey County	Environmental Inspector	1000/1130				
_							

DETAIL
17) Attachments:
1. Field Notes
2. Well Destruction Form
3. Follow-Up Phase Inspection
4. Yellow Jacket Daily Drill Report
5. Safety Tailgate
18) Report Submitted by: Andrew Mauck



19) Photos:



Description: 95% Portland Cement / 5% Bentonite is mixed and Pumped in the well with a tremie pipe at MW-BW-68-A.



Description: Monitoring Well casing is drilled down 5' at MW-BW-68-A.





Description: MW-BW-68-A after Well Decommission



Description: 95% Portland Cement / 5% Bentonite is mixed at MW-BW-69-A.





Description: Using a post hole digger to ensure digging to 5' bgs.



Description: MW-BW-69-A after Well Decommissioning.





Description: 95% Portland Cement / 5% Bentonite is mixed and Pumped in the well with a tremie pipe at MW-BW-70-A.



Description: 4" PVC Well is filled with 95% Portland Cement / 5% Bentonite mix before pressurizing the casing at 15 psi for 15 min at MW-BW-70-A.





Description: Monitoring Well casing is drilled down 5' at MW-BW-70-A.



Description: A concrete cap is placed on top of the casing at 5' bgs at MW-BW-70-A.

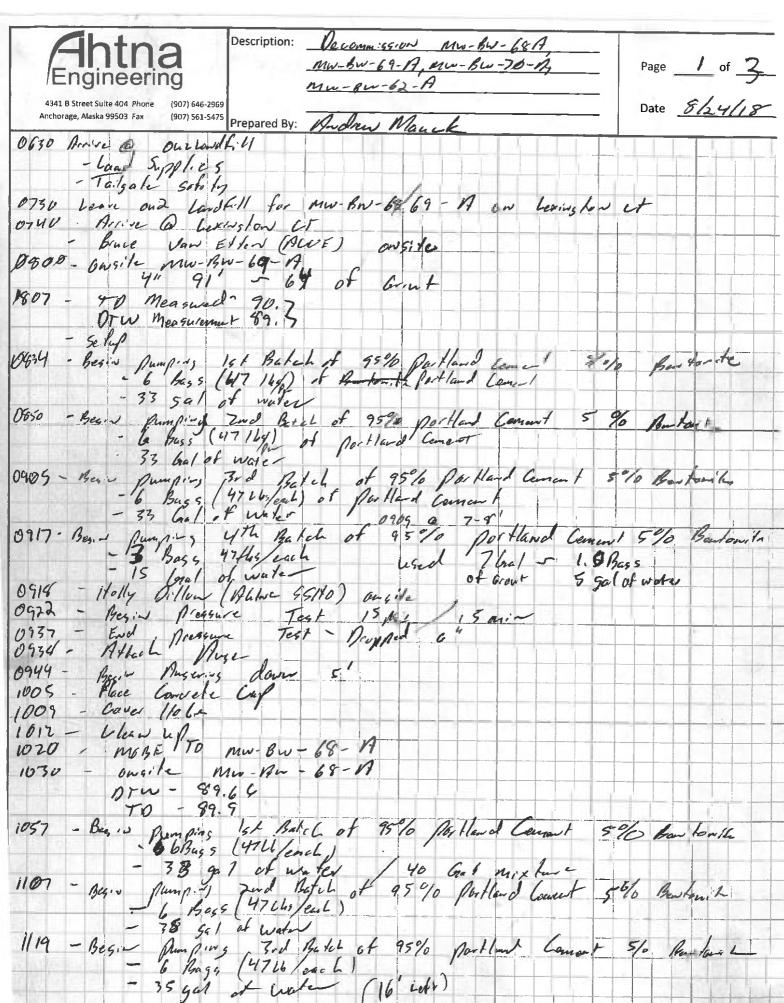




Description: MW-BW-70-A after Well Decommission.



Description: 95% Portland Cement / 5% Bentonite is mixed and Pumped in the well with a tremie pipe at MW-BW-62-A.



# Ahtna

4341 8 Street Suite 404 Phone Anchorage, Alaska 99503 Fax (907) 646-2969

Description: well Decommission: Mw-bw-62-A,
Mw-bw-69-A, Mw-bw-69-A,
Mw-bw-70-A

Page <u>2</u> of <u>3</u>

Date 8/24/18

Anchorage, Alaska 99503 Fax (907) 561-5475 Prepared By: Andrew Mauch	
1190 Bes, - Pumpinfill 4th Both of 95% partland Comment 5%	o Mentouth
- 1 Bag (4766)	
1140 Box s Pressure Test 15 pgc /15 mms	
1157 Acolort Acossure Test	
1214 Hook in dill dell to 5'	
1214 Hook up dill dell to 5' 1214 Mixed Left over portland w/ Quileso to Pource	
an top of lasin	
1222 Cover w/ Sand to grade	
1235 MOBE to MW-AW-TO-A	
13 00 Lund	
1340 @ our Loud! l'esupplying	
1425 arrived a MW-BW-70-14	
1430 TO 91.5	
10 prw 91. 2	
1444 Beg Pump, 15 t Batch of 9510 Portlant Coment	5 % Tratonile
- 6 3659 (4766s/cach)	
1456 Bosin Pumping 2nd Batch of 95 % fortland Comment	50/ 1/
1956 Begin frumfing and later of 15 co fortland Coment	10 Buston Le
- 6 Bass /476/gea-4)	
1505 Begin Pumping 3rd Batch of 95% Portland Coment	50/0 B 1 1
- 6 Bas 5, 47664/each	> / CONTONITY
- 33 gal water	
1509 Current Dipth to Coment Menta: 12 is 10' 1520 Begin Pumpiss 4th Batch of 95% partland Consent	
1520 Begin pumpis 4th Batch of 95% partland lement	5010 Kentowite
- 3 19695 of 165 /cec	
1327 Top oft Case-	
1011 01 049	
1530 Begin pressure Test 15/15/15 min	
120 11 10	
1596 Place I has of Qualifiche in hole	
1554 Gover 1/0/e	
16 10 Dru mu-Bu-62-103,64	
100 MW-BW-62-A 126.0	
1630 Began Pring 19t Batch of 95% portland Concert-	5% horas la
- 6 Kass (47/h1/Each)	17 70 70 70 10
- 33 h. / week	
1637 May w Pring and Batch of 95% Portland Comout :	1 40 Bowfords
1637 Bay w Pung in 2nd Batch of 95% Portland Comout 3	
- 33 Cral water	

Description: MW-BW-68-A, NW-BW-69-A, Page <u>3</u> of <u>3</u> MW-BW-70-A, MW-BW-62-A /Engineering well Decommission 1646 Begins Pumping 3rd Batch of 9590 Partland Count 5% Bourland Land 1654 Begins Pumpins 4th Batch of 9596 11 Date 8/24/18 4th Bass lear L 95% postland Court 5% Ben for: 6 - 6 Bass wo les son Retal of 95% por Hand Comment 5 % Market 1703 Besi Pumping 6 Bass water Batch of 95% pattland Coment 5% Bentonite
474 has sleach - 33 Gal 1707 Besin Rumpi's 7th Butch of 95% por Hand Commit 5% Beachen. Le 17 hal - 133 Cal mate 6 Bass of (4745/each) - out of water - still need another 40+ will Finish lest thing 1720 tomorrow Clear up. 1721 Bruce Naw Etton off Site 1730 Moved equipment to landfill. Let I dill is on top of 6 1740 @ , L. I.l. 1750 Let & landfilly Evel of de 1800 -

## **Well Destruction Form**

Location: Marina	Project:/	ort ord Ex	2001 & vent: Well De commis	55-000 Completed	by: A. Man	de Date	8/24/18
Grouting information	Well/boring info						
Well/boring ID	MW-BW-69-17	MW-810-68-A	MW-BW-700-PR	MW-BW-62-1	¥		
Date	8/24/19	8/24/18	8/24/18	8/24/18			
Site	OLUTP	Outp	ouctp	OucTP			
Diameter	4"	4"	4"	50			
Total depth	90.7	89.9	91.5	126'			
Estimate of grout volume	64901	63 gal	64,05	126 201			
Amount of water (gallons)	104 gal	112 gal	109 6.41	230			
Amount of cement (bags)	19 Bass	19 Bas 5	19 Bags	48 Bay 5			
Amount of bentonite (lbs)	45 165	45645	45665				
Grout weight (lbs/gallon)	12.7/ Mga	12.73 61/91	12.74 4/4	112.8 Lbs (11.97) 1265/51			
Grout volume used (gallons)	142 Gal	14790/	145641	358Gal			
Diw	89.7	59.6	91.2	103.68			

Volume calculation formula: Gal x Depth(ft) = Estimated grout volume

Diameter	Gal	Diameter	Gal
2"	0.2	8"	2.6
4"	0.7	9"	3.3
5"	1.0	10"	4.1
6"	1.5	11"	5.0
7"	2.0	12"	5.9



## CONSTRUCTION FOLLOW-UP PHASE INSPECTION

Contract No.: <u>W41234-14-C-00</u> 99	Date: 8/24/2018
Location/Project: Monitoring Well Decommosioning	
Location/Project: Montoning Well Decommostating	
Former Fort Ord, Morina, LA	1/ 3 9 1
Project/Area of Inspection: Montgoing Well Vecomm	issioning @ Former
Fort Oid, Marina, LA MW-BW-68-A, MW-BW	U-69-A, MW-BW-70-A,
MW-BW-62-A	
A. Definable Features of Work: Status of Inc.	spection:
MI DI CO-A MI DI CG A MI DI TO A	n n / 2 N.
MW-BW-68-A, MW-BW-69-A, MW-BW-70-A, Well decommissioning work was complete	1 0 - 13 W - 6 2 - 17 ·
Well decommissioning work was complete	A accionation of Dection
1 North Plan @ Framer Fact Ord. CA.	without Well Heismanissionic
Works Plan @ Former Fort Ord, CA.	E
No discuptions to local businesses of	and do my mile 1
100 Day From s 10 Beat Wusinesses of	recraents was worked.
8 7 8 8	W 1875 1 3 B
	S SINCE THE
1 2 2 2	
Quality Control Manager	

## FOLLOW-UP PHASE INSPECTION CHECKLIST

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Reporting phase of project: Have data reports been prepared in accordance with project plans?	Compare data reports to specifications detailed in planning documents.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	9/21/14/ pr
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements?	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	Mn 8/24/16
Have other definable features of work been completed in accordance to project requirements?	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	Mr 8/24/18

		DAI	LY DRILL REPORT	CLIENT:	- no			P.V.	4. 19.	Sala lelle	The Alberta	PAGE	7 OF	1
	7	335	YELLOW JACKET DRILLING		1.2	na i	nA	No.				DATE:	8-79	1-18
	/		SERVICES	10.00000		10 000000			Au 1811-194	MW-BW-69A	MU-EU-ZON	RIG#:	14/2	
-	FROM	то	DESCRIPTIO	ON OF ACTIVITIES	OF ACTIVITIES				340-50 60	7-10 00 7-17	700	QTY	CONSTRUCTI	
	530	680	and a line	1: 1	divolo sile			DRILLED	6) +-	0	0			Steel Well Prot.
-	110	000	Metro Lispactions	01/1001	6 5/1		FR	MC						Steel Guard Posts
	630	700	load Mytanals										Flush Traffic Vault: Sī	ze
+	020	700	10401 2014 10,1415		1 10 10 10 10	1	FOOTAGE I	DRILLED TO	5	5	5		Bags: Asphalt	
	700	1000	dive to location	- 1								-	Bags: Concrete Mix	
-	70	1000	Civilia 10 Total Civi	54+00	91007	1/18		AKEN THIS				177	Bags: Quickcrete  Bags: Portland Type I	
			Doussure let. dill	wall )	2 7		UF	.16				156	Bags: Portiand Type I	
-	100		Dies Suite 16x1, Mill	( ) ( ) ( ) ( )	0		SURFACE	ONDITION	DIRT	DIRT	DIRT		Bags: Bentonite Chips	
	1000	100	mae to next locat	10-1 SU	tup a	nut lin	(CIRCL		ASPHALT	ASPHALT	ASPHALT	-	Pails: Bentonite Pelle	The second second second
			TOOL TO VEX.	1 30	1 1				CONCRETE	CONCRETE	CONCRETE		Bags: Sand-Grade	13 5120
			Drusseyu lest da	5)10, w	ell 10 1	5 more	CEMENT	FROM		1 1117			Bags: Sand-Grade	Various Link
	137.4				7.50	1	GROUT	ТО	1 172217				" x 5' Casing:	PVC/SS
			to not location		Mary Mary			7 250 10				Constant Of	" x 10' Casing	
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	100	130	Lineh		a dina		GROUT	то					" x 10' Screen	n-Slot Size:
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		for the last			1		SEAL	ТО			100		J. Plug - Size	
	SAME, I		5				Wiles 1	FROM				Cy	Bags: Bentonite Gel P	owder
	33.0	530		1.	1		SAND	THOM		15.00			55 Gal. Drums - 17H F	
-	7/-	220	more to hext 10	cation 5	ET OP,	Grout	PACK	ТО					*	The bottom of the state of the
					,		BLANK-	<b>PFROM</b>		Break Break			Visqueen Tarps 6 mil.	
-			TO TO YOU OUT AL	f water	01114	CPUN-D	CASING	-					Sono Tube	and the San State
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	100		EMPLOYEE'S NAME	HOURS	PER DIEM	INITIALS	DINATES	LAT.				100	PIPE TRUCK:	
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	LOYE	HELPER:	16 1 cch cc	, V)		200	95	ELEV.			According to the second	N L	STEAM CLEANER	
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	V	Uli					10.00	то						
_	1			Complete Law 11									EXCLUSION TEN	

## AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

GENERAL DATA	- 17/10		No.	Date:	8/24/18	A			1
Site: FFO, Marina CA	vitst	19-24	130		1: MW-BV-68		n	1W-19	5W-64-14 pew-Bw-7
AHTNA Site Manager: North Lieber M	Men			AHTNA SSHC	1: Hally Mil	low	MP	001	mw-Bw-6
DOCUMENTATION OF WORKDAY SAFETY N	1EETI	ING	(Li	st Topics of Discu	ussion):				
Other items to address as appropriate (che						_			
Scope of day's work				's Focus Four					ar miss / injuries / lessons
☐ Site SH&E Plan / Revisions				III Hazards					ety / Materials Handling
AHA's / PTSP's completed/reviewed?				ectrical Hazards					d Triggers <sup>1</sup>
Emergency SOPs (i.e. rally pt., tele #s)				ruck-by Hazards					er Controls <sup>2</sup>
Communications Check	-			aught in / betwee		M O	nei	r (nea	at, noise, trench, confine sp
PPE Requirements	图	Ot	her	Primary Hazards	S Silius. 5	2 15 315		F302-1	EAST-SHEET WILLIAM AND A SECRETARY
MEETING ATTENDEES: (place * next to sub	cont	ract	or	safety representa			- /	0014	CANN.
NAME / COMPANY								COM	PANY
Hudran Mauch / Hhtne				BR	ITTAN CAR	150	N	AH	INA JASANI
Javier TZOS/ YID							1	-	7. 0
mes Volger (JI)									
50 11 1									
Bran Harmando?		٠,٠	_						
Kopen I AM HOMN	5	17	-12	2					
HOW ATTHOTAINTY	105								
	E		-				_		
A SILI Vallettei	CC	W							
SUBCONTRACTOR SAFETY REP'S COMMENTS	?								
		mpl	ete	d applicable insp	ection item)				
	h co	mpl N	ete N A		ection item)	Y	N	N A	Inspection Item Other (List)
DAILY INSPECTIONS: (SSHO shall initial each y N N A Inspection Item  Postings/Plans (APP) readily avail.	h col	N D	N A	Inspec Signs (No Smoking	tion Item g, Site Control)	Y	N	. 1	
DAILY INSPECTIONS: (SSHO shall initial eac	h col	N D	N A	Inspec Signs (No Smoking PPE(head/eye/foo	tion Item g, Site Control) ot/hand/ear/body)			A	
PAILY INSPECTIONS: (SSHO shall initial each of the property of	Y G	N O	2 A A D	Inspec Signs (No Smoking PPE(head/eye/foo Hi-Vis, PFD's, Ring	ition Item g, Site Control) ot/hand/ear/body) g Buoys, Etc.			A   	
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DAILY INSPECTIONS: (SSHO shall initial each  Y N A Inspection Item  Postings/Plans (APP) readily avail.  Designated Parking / Traffic Control  Subcontractor Safety Rep Involved  Subcontractor / Task AHA's  Subcontractor Equip. Inspections	Y S	N	2 4 20 0 0 0 0	Signs (No Smoking PPE(head/eye/foot Hi-Vis, PFD's, Ring Excav./Trench/Sp Confined Spaces (	etion Item g, Site Control) ot/hand/ear/body) g Buoys, Etc. ooils Protection Management			A	
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<sup>2</sup> BBS Trigger Controls: (e.g. communicating, accountability, patience, relaxation techniques, healthy lifestyle, and adequate sleep).

Ahtna Daily Site Safety Tailgate / Inspection Log, version: August 2014



GENERAL					
1) USACE Contract No.:	W91238-14-C-0048	2) Date:	8/25/2018		
3) Program Manager	Derek Lieberman	4) Report No.:	D-5		
5) Task Lead:	Holly Dillon	6) SSHO (Designee):	Holly Dillon		
7) Superintendent:	Mark Fisler	8) QC Manager:	Andrew Mauck		
9) Weather:	Overcast	10) Temperature:	60-70		

#### **SUMMARY**

#### 11) Work Performed:

Finished Decommissioning MW-BW-62-A by continuing to fill the well with 95% Portland Cement / 5% Bentonite using a tremie pipe, drilling to 5' bgs, placing a concrete cap, and filling the vault with sand. The old vault bolts were cut to the surface and native sand was placed over the top. Decommissioned Monitoring Wells MW-BW-20-180 and MW-BW-22-180.

**12) Project Issues:** None

**13) Unresolved Issues:** Did not Finish Decommissioning MW-BW-22-180

CONTRACTOR PERSONNEL					
14) Prime Contractor and	d Subcontractor Onsite:				
Name	Company	Position/Title			
Andrew Mauck	Ahtna	Field Technician / QC Manager			
Brian Hernandez	Yellow Jacket	Driller			
Javier Rios	Yellow Jacket	Helper			
James Wolfley	Yellow Jacket	Helper			

15) Government Personnel Onsite:							
Name	Company	Position/Title	Arrive/Depart (Day)				
Bruce Van Etten	USACE	Oversight	0800/1700				

**GOVERNMENT PERSONNEL** 

	VISITING	PERSONNEL	
16) Visitors Onsite:			
Name	Company	Position/Title	Arrive/Depart (Day)

DETAIL
17) Attachments:
1. Field Notes
2. Well Destruction Form
3. Follow-Up Phase Inspection
4. Yellow Jacket Daily Drill Report
5. Safety Tailgate
18) Report Submitted by: Andrew Mauck



19) Photos:



Description: The old vault bolts were cut off during a pressure test at MW-BW-62-A.



Description: Monitoring Well MW-BW-62-A was drilled 5' bgs.





Description: The Monitoring Well Vault at MW-BW-62-A was covered in Sand.



Description: MW-BW-62-A after Well Decommissioning.





Description: Pulling the Bollards out of the ground at MW-BW-20-180.



Description: Making the 95% Portland Cement / 5% Bentonite Grout for ceiling MW-BW-20-180.





Description: Using a tremie pipe to fill the monitoring well casing at MW-BW-20-180.



Description: Using a jack hammer to break apart the concrete pad at MW-BW-20-180.





Description: Pulling the standpipe up to be able to cut the well casing at MW-BW-20-180.



Description: Monitoring Well casing is drilled down 5' at MW-BW-20-180.





Description: Concrete cap placed on top of the casing at MW-BW-20-180.



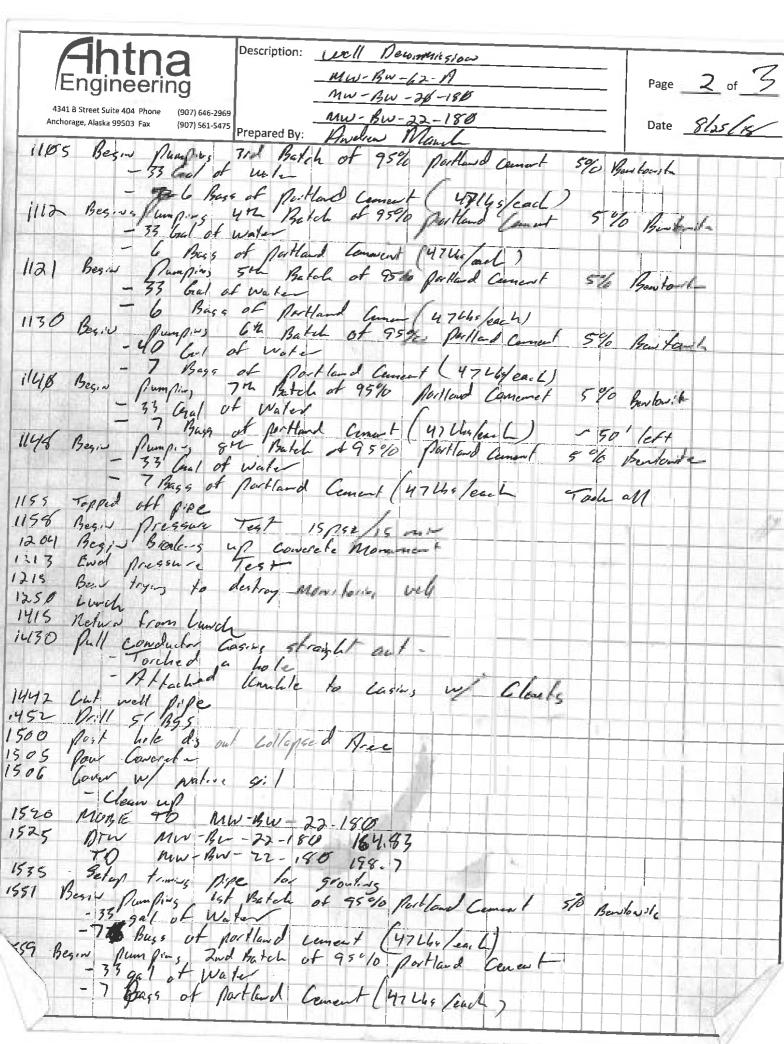
Description: MW-BW-20-180 after Well Decommissioning.





Description: Filling the well casing with 95% Portland Cement / 5% Bentonite grout at MW-BW-22-180.

Description, 1410// O	
Antna Description: Well Decomm 55:000	. 2
Engineering	Page
Engineering Mw-Bw- 20-160	
4341 B Street Suite 404 Phone (907) 646-2969 Mw-Sw — 22-180	Date 8/25/18
Anchorage, Alaska 99503 Fax (907) 561-5475 Prepared By: Andrew Man	
0630 - Met 6 Our Landfill	
- Tailgate Satisfy	
- Prep for work	
- would over plan for nex! 2 days	
0740 - Let + Lonotin to mw-BW-62-19	
0 155 - 1xwird Nw-bn-62-19	
- Set up	
0820 - Two dellis is on to worm up	
19839 - Begin pumpies 8th Butch (continuing from yesterday) of	8 % Outland level
5 % Bentowith	
- 33 Gal of water	
- 6 Bass of Portland comment	
0845 - Bown pumpirs 9th Butch of 950% Portland Comment 5%	Societes
73 Gral of Water	
6 Bass of Builland Coment Toole 23 991	
0849 - Top off Cagira	
0950 - Hook up Pressuring device	
0 454 - Bas. Pressur Test 15 PS+ 15 m. 2	
09 50 Pressur Test 15 pg 15 m. 2	
OSO2 - GUN Bolls of well Van It	
OGUR Pressure Test pass	
Top off	
- 1000 kg All Ra . Tall . L = 12 10 11	- 2 (mil)
0715 - 1/1:11	
0930 - Fill w/ Converte	
0935- Bill w/ Sand	
- Cover w meteral material	
0955 - Finished w/ mw-16w-62-17	
1000 - 101 1112 111	
1005 - MOSE to MW- 9W 20- AM 180	
1015 - Mrive B Mw. 8w 20 - 4 180	
1828 - DTW MW-BW-20-180 156.7 TD MW-BW-20-186 198.7	
TT) nw- Bw 20.186 (98.7)	
1030 - Remove Rollards from ground	
Set up	
iOU4- Begin pumping 19+ Batch of 95% patter of Coment \$%	Bow lovi 6
- 33 Gral Ot water	
- 6 Buss (47 Us sad)	
255 - Hegin Pumping 2nd Butch of 95% Portland Coment 5%	Ben tone it
1044 - Begin Pumping 15t Batch of 95% Matland Comment 5% - 3% (on ( b) water)  - 6 Bugs (47 Who each)  255 - Begin Pumping 2nd Batch of 95% Portland Comment 5% - 3% boal of water  - 6 Bags (47 Who four le	
- 6 Bass (47 Lbs /ouch	
	446 3 464



Description: Well Decommission Page 3 of 3 mw-Bw-62-A MW- BW-20-18-8 Date 8/25/18 mw-Bw-22-180 4341 B Street Suite 404 Phone (907) 646-2969 Anchorage, Alaska 99503 Fax (907) 561-5475 Prepared By: Andrew Manch Begin pumping 3rd batch of 95% portland Coment 5% Betonile 16004 - 7 Bass of fortland Cement 476/s/each
Begin pumping 4th batch of 95% fortland Coment 5% betweente
- 33 gal of water
- 7 Bass of fortland Coment 476/s/each
Begin pumpins 5th Batch of 95% portland Coment 5% Beboush 1613 1619 - 33 gal of water

- 77 Bags of portland Coment Why leach 25 Left
Begins pumping 6th Batch of 95% Partland Coment 5% Betonite

- 17 gal of water 1630 Begin Filling renging 20' w/ 95% Portland Conort 5% Betowife 1640 - 20 gal of wal. - 4 Bas 4 of Portland Coment 47665 /each - Toole 12 gallors of mir Begin pressure fest 15 pst/15min End pressure Test 1649 1704 Olean up 1705 DEMOBE to landfill 1720 ( our tourdfill 1730 1800 offgite ouz Landfill

## **Well Destruction Form**

Location: Maira	Project:_ <i>For</i>	+ Ord EN	2018 vent: <u>Wall Decom</u>	Mi 9510 Completed I	y: Andrew	Man Date:	8/25/18
Grouting information	Well/boring info						
Well/boring ID	Mw-8cv-20-180	Mw. 6w. 22-18	þ				
Date		8/25/18					
Site	Ouctp	OULTP					
Diameter	54	5"					
Total depth	198,7	194.7					
Estimate of grout volume	199.0 Craller	199 Gal					
Amount of water (gallons)	271 gallows	182 gallous					
Amount of cement (bags)	51 Bass	40 Bass					
Amount of bentonite (lbs)	119, 85665	94 665			·		
Grout weight (lbs/gallon)	13.08	13.37	1	N			
Grout volume used (gallons)	365	262					

DTW 156.7 164.43
Volume calculation formula: 6

Volume calculation formula: Gal x Depth(ft) = Estimated grout volume

Diameter	Gal	Diameter	Gal
2"	0.2	8"	2.6
4"	0.7	9"	3.3
5"	1.0	10"	4.1
6"	1.5	11"	5.0
7"	2.0	12"	5.9



# Date: 8/25/2018 Location/Project: Monitorius Well Decommissionins Former Fort Ord, Marina, CA Project/Area of Inspection: Mow. foring Well Decommissioning @ Former Fort Ord, Marina, CA / Mw-Bw-62-A, Mw-Bw-20-1800, Mw-Bw-22-180 A. Definable Features of Work: Status of Inspection: MW-BW-62-A, MW-BW-20-180, MW-BW-22-180; Well Ole commissions work was completed according to Section 5:1 of the July 2018 Final Revision Monitoring Well Decommissioning Work Plans & Former Fort Ord, if No disreptions to local bisinesses or residents was notices Quality Control Manager

CONSTRUCTION FOLLOW-UP PHASE INSPECTION

## FOLLOW-UP PHASE INSPECTION CHECKLIST

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Reporting phase of project: Have data reports been prepared in accordance with project plans?	Compare data reports to specifications detailed in planning documents.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	My / 9/25/18
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements?	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	/m/8/25/18
Have other definable features of work been completed in accordance to project requirements?	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	My 9/25/16

	DAI	LY DRILL REPORT	CLIENT:	1 Ma							PAGE	OF	1
		YELLOW JACKET DRILLING		ion IA	ing CA		176				DATE:	8-7	5-18
		SERVICES	A1D 10B NO:	9-08			2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	- 13			RIG #:	147	
FROM	то	DESCRIPTIO	ON OF ACTIVITIES	000		HC	DLE #	AW-BU-6	7-4	MW-BW-70	S'QTY	CONSTRUCTION	ON SUPPLIES
10000			1. 1 1 1 A			FOOTAGI	E DRILLED					" X	Steel Well Prot.
530	630	Victory Inspections	drive 1	o site	fooler		ОМ	0		0		" x	Steel Guard Posts
630	900	1/		1	1		u n			1		Flush Traffic Vault: Siz	ze
670	000	1004 Mart 41.415 gut	Water,	April of	o locatia	FOOTAGE	DRILLED TO	5	No. of the second	5	2	Bags: Asphalt  Bags: Concrete Mix	
300	1000	Linish well Mw.	- Bay - 17	-A Jall	THAT !	CANADIES	TAKEN TINE				3	Bags: Quickcrete	
		1.	(3.1.	1	A STATE OF THE STA		TAKEN THIS				+33	Bags: Portland Type II	Cement
		with Sand		34				DIRT	DIRT	DIRT		Bags: Bentonite Grou	t
1000	1230			4			CONDITION LE ONE)	ASPHALT	ASPHALT	ASPHALT		Bags: Bentonite Chips	the state of the s
1000	1100	would to next lond	on, 5117 C	ill yelmon	111	CINCL	.e ONE)	CONCRETE	CONCRETE	CONCRETE		Pails: Bentonite Pellet Bags: Sand-Grade	ts-Size
		bullande and us	0.151	a wall.	hu L	CEMENT	FROM					Bags: Sand-Grade	
		January Million	1 11 23 1	VVIII	CALLY A	GROUT	то					" x 5' Casing:	PVC/SS
		Contracte In will of	Converse									" x 10' Casing	
1220	100					BENT	FROM					" x 5' Screen-	
1730	100	Lourn				GROUT	ТО					" x 10' Screer	n-Slot Size:
100	330	Harry Boly all w	/ :	ent at	- mull	BENT	FROM					Bottom Caps  Slip Cap - Size	
	7/0	101111111111111111111111111111111111111	women of Continue			SEAL	то		12			J. Plug - Size	
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## AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

ite: <i>FFO</i> , Marwa, CA hTNA Site Manager: Dore la Vieha m.		Date: 8/25/18	(2)	1 4	-	P		
HTINA Site Wanager: Morelle Lieberm	01-10365	AUTHA SSUO:	100-0	,,,,,	w-	Bu-28-180; nw-Bu-2		
			Villan	Altre		1.367.436		
OCUMENTATION OF WORKDAY SAFETY N	IEETING (L	List Topics of Discussion <b>):</b>						
Other items to address as appropriate (chec	k those d	iscussed):						
Scope of day's work	OSH	IA's Focus Four				near miss / injuries / lessons		
☐ Site SH&E Plan / Revisions		Fall Hazards				afety / Materials Handling		
■ AHA's / PTSP's completed/reviewed?					BBS Hazard Triggers <sup>1</sup>			
Emergency SOPs (i.e. rally pt., tele #s)					■ BBS Trigger Controls <sup>2</sup>			
Communications Check					er (h	eat, noise, trench, confine sp)		
PPE Requirements	Othe	er Primary Hazards						
MEETING ATTENDEES: (place * next to sub	contractor	r safety representatives)				CASTAGRAMMENT FERON		
NAME / COMPANY			IAN	ME/	CO	MPANY		
Andrew Mande / Altra								
Javier RIOS/ YJD								
Don Kinsich / 45A								
1 10: 1:45								
James Welfley 170								
The Van The CO	E							
0, 0, 1								
SUBCONTRACTOR SAFETY REPS COMMENTS	2							
JOBEON MACTOR SALETT RELEGEON MENTS								
DAILY INSPECTIONS: (SSHO shall initial eac	N	1		T	N	Inspection Item		
Y N A Inspection item	YNA	Inspection Item	Y	N	A	OTHER (List)		
				-	-			
		Signs (No Smoking, Site Cont		-	+			
Designated Parking / Traffic Control		PPE(head/eye/foot/hand/ea	r/body) 🗖					
Designated Parking / Traffic Control Subcontractor Safety Rep Involved		<ul><li>PPE(head/eye/foot/hand/ea</li><li>Hi-Vis, PFD's, Ring Buoys, Etc</li></ul>	r/body) C		<b>-</b>			
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<sup>2</sup> BBS Trigger Controls: (e.g. communicating, accountability, patience, relaxation techniques, healthy lifestyle, and adequate sleep).

Ahtna Daily Site Safety Tailgate / Inspection Log, version: August 2014



GENERAL								
1) USACE Contract No.:	W91238-14-C-0048	2) Date:	8/26/2018					
3) Program Manager	Derek Lieberman	4) Report No.:	D-6					
5) Task Lead:	Holly Dillon	6) SSHO (Designee):	Holly Dillon					
7) Superintendent:	Mark Fisler	8) QC Manager:	Andrew Mauck					
9) Weather:	Overcast	10) Temperature:	60-70					

SUMMARY						
11) Work Performed:						
Decommissioned Mon	itoring Wells MW-BW-22-180 and MW-OU2-60-A.					
12) Project Issues:	None					
13) Unresolved Issues:	None					

Name	Company	Position/Title	
Andrew Mauck	Ahtna	Field Technician / QC Manager	
Bri Foster	Ahtna	Field Technician	
Brian Hernandez	Yellow Jacket	Driller	
Javier Rios	Yellow Jacket	Helper	
James Wolfley	Yellow Jacket	Helper	
		T PERSONNEL	

VISITING PERSONNEL							
16) Visitors Onsite:							
Name	Company	Position/Title	Arrive/Depart (Day)				

Company

Chenega

USACE

Name

Bruce Van Etten

Tom Ghigliotto

Position/Title

Oversight

Oversight

Arrive/Depart (Day)

0800/1700

1030/1040

DETAIL					
17) Attachments:					
1. Field Notes					
2. Well Destruction Form					
3. Follow-Up Phase Inspection					
4. Yellow Jacket Daily Drill Report					
5. Safety Tailgate					
18) Report Submitted by: Andrew Mauck					



19) Photos:



Description: Cutting lift points on MW-BW-22-180.



Description: Using the LAR to lift the Stove Pipe out of the ground at MW-BW-22-180.





Description: Well casing is cut at MW-BW-22-180.



Description: Well casing is drilled down to 5' bgs.





Description: MW-BW-22-180 after Well Decommissioning.



Description: Using a tremie pipe to pump the grout to the bottom of the well at MW-OU2-60-A.





Description: Mixing the 95% Portland Cement / 5% Bentonite at MW-OU2-60-A.



Description: Pressure Test at MW-OU2-60-A 15 psi for 15 minutes.





Description: Using a jack hammer to break away the concrete from around the stickup at MW-OU2-60-A.



Description: Using the LAR to lift the Stickup out of the ground at MW-OU2-60-A.





Description: Monitoring Well MW-BW-62-A was drilled 5' bgs.



Description: MW-OU2-60-A after Well Decommissioning.



4341 8 Street Suite 404 Phone

Description: Well Occommission MW-BW-22-180

MW-042-60-A

Page 1 of 2

Date 8/26/18

Anchorage, Ala	aska 99503 Fax	(907) 561-5475	Prepared By:	A.L.	11.	1.		Date	8/26/1
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	7 Bes	5 474	bs/och)	95%	pertand L	Care L			
						Control of the Contro			

Ahtna Engineering  4341 B Street Suite 404 Phone (907) 646-2969  Anthony Objects Falls  (907) 646-2969	Page 2 of 2  Date \$/26/18			
Anchorage, Alaska 99503 Fax (907) 561-5475 Prepared By: How dien Marnelle  1303 Hand Pour the remaining amount. 95% Northerd Camet  4 gallows each trip 32 Gallows used of mix  1310 Beg. Deskure Test 15 PSI 1,5 min  1314 Beg. Jack Hammering Monument.  1325 End Pressure Test Persed  1332 End Breaking Monument  1335 Cut hole is well Box to attach class society out  1340 Lift well Reproduce Concert of well Vault  1353 Cut well casing	500 Bestow. K			
1357 Hook of dr. 11 Bit 1357 Best Castes Castes 1405 pour Converte 14108 Corw of Cleaning 1422 - Démonsit Offsite off to Lay down yard. 1430 - Q Constill - frep for Tomorrow - Throw track away 1600 - OFFSite - Workers down for the day				

## **Well Destruction Form**

Location: Mariwe	Project: Ff. Ord	Event: <u>w:// We</u>	Event: Will Decommiss Completed by: Andrew Moude Date: 8/26/18							
Grouting information	Well/boring information									
Well/boring ID	mw-042-60-9									
Date	8/26/18									
Site	Duz		_		31					
Diameter	5-9									
Total depth	119.5"									
Estimate of grout volume	120									
Amount of water (gallons)	189 614									
Amount of cement (bags)	40 Bas s									
Amount of bentonite (lbs)	94 665									
Grout weight (lbs/gallon)	13.8									
Grout volume used (gallons)	25750/									

DTW

93.85

Volume calculation formula: Gal x Depth(ft) = Estimated grout volume

Diameter	Gal	Diameter	Gal
2"	0.2	8"	2.6
4"	0.7	9"	3.3
5"	1.0	10"	4.1
6"	1.5	11"	5.0
7"	2.0	12"	5.9



## Date: 8/26/2018 Contract No.: W91238-14-C-0048 Task No.: \_\_\_\_\_\_\_ 10:9 Location/Project: Monitorius Well Decommissionius Former Fort Ord, Morina, UA Project/Area of Inspection: Mon. Foring Well Decommissions @ Former Fort Ord, Marina, CA/Mw-Bw-22-180, Mw-0u2-60-4 A. Definable Features of Work: Status of Inspection: MW-BW-22-160, MW-OUZ-60-A; Well Decommissioning Works was completed according to Section 5.1 of the July 2018 Final Revision Monitoring Well Decomprissioning World Plan was completed according to Final Revision Monitoring Well a Fumer Fort Ord, CA. businesses or residents No disruption to Quality Control Manager

CONSTRUCTION FOLLOW-UP PHASE INSPECTION

## FOLLOW-UP PHASE INSPECTION CHECKLIST

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Reporting phase of project: Have data reports been prepared in accordance with project plans?	Compare data reports to specifications detailed in planning documents.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	Mul
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements?	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	Mm /
Have other definable features of work been completed in accordance to project requirements?	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	8/24/18

DAILY DRILL REPORT CLIENT: Ah-fung											PAGE OF /		
YELLOW JACKET DRILLING		DRILLING LOCATI	CATION: Majing (A			DATE: 8-76-18			3				
	SERVICES		YJD JOB NO:	8-030	TOTAL TRAIL TOTAL	HOLE #		11 0.			RIG #:	142	1
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700	730	Jututy haring				FOOTAGE I	DRILLED TO	5		9		Bags: Asphalt	45.7
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730	1000	Childe 10 the 41	07. 504	Chagani	K (W)		SAMPLES TAKEN THIS DATE				47	Bags: Quickcrete Bags: Portland Type II	Cement
		Concrete and and n	1000 men	F. d:11	105		ATE.		- State CH		7	Bags: Bentonite Grout	AND DESCRIPTIONS
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CLIENT APPROVAL:							FROM	7-7-17-5					20 - 2 m d 2 m
					TO		Language Comment			Editor of the State			

A Secretaria

# AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

		<u> </u>		Date: 8/26/18		2.0		
Site: PFO, Marina, 1)	H L	192	ma	Site Location: Mw - BW - Z AHTNA SSHO: 1/2/1/4 10 111	2-1:	80	MI	N-042-68-17
AHTNA Site Manager: Decelo Lieberme	w			AHTNA SSHO: Holly hell	مرد و	attn	100	Várcáli
DOCUMENTATION OF WORKDAY SAFETY N	IEET	NG	i (Li	st Topics of Discussion):				
Other items to address as appropriate (chec	k th	<b>o</b> se	dis	cussed):				
Scope of day's work				s's Focus Four	□ R	ece	nt ne	ear miss / injuries / lessons
☐ Site SH&E Plan / Revisions				all Hazards				fety / Materials Handling
■ AHA's / PTSP's completed/reviewed?			EI	ectrical Hazards				rd Triggers <sup>1</sup>
Emergency SOPs (i.e. rally pt., tele #s)		B	St	truck-by Hazards				er Controls <sup>2</sup>
Communications Check				aught in / between Hazards	<b>2</b> -0	the	r (he	eat, <u>noise</u> , trench, confine s
PPE Requirements	D			r Primary Hazards			سا	
MEETING ATTENDEES: (place * next to sub	cont	rac	tor	safety representatives)	Sali	91	37(1)	CONTRACTOR / SELEC
/ NAME / COMPANY					NAM	IE/	CON	<b>IPANY</b>
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Y N A Inspection Item      □ □ Postings/Plans (APP) readily avail.     □ □ Designated Parking / Traffic Control     □ □ Subcontractor Safety Rep Involved     □ □ Subcontractor / Task AHA's     □ □ □ Subcontractor Equip. Inspections	Y	z 0 0 0 0		Inspection Item  Signs (No Smoking, Site Control)  PPE(head/eye/foot/hand/ear/body Hi-Vis, PFD's, Ring Buoys, Etc. Excav./Trench/Spoils Protection Confined Spaces Management			A	
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<sup>2</sup> BBS Trigger Controls: (e.g. communicating, accountability, patience, relaxation techniques, healthy lifestyle, and adequate sleep).

Ahtna Daily Site Safety Tailgate / Inspection Log, version: August 2014



GENERAL					
1) USACE Contract No.:	W91238-14-C-0048	2) Date:	8/27/2018		
3) Program Manager	Derek Lieberman	4) Report No.:	D-7		
5) Task Lead:	Holly Dillon	6) SSHO (Designee):	Holly Dillon		
7) Superintendent:	Mark Fisler	8) QC Manager:	Bri Foster		
9) Weather:	Overcast	10) Temperature:	60-70		

SUMMARY				
11) Work Performed:				
Decommissioned Monitoring Wells MW-OU2-59-A and MW-OU2-36-A.				
12) Project Issues:	None			
13) Unresolved Issues:	None			

CONTRACTOR PERSONNEL						
14) Prime Contractor and	Subcontractor Onsite:					
Name	Company	Position/Title				
Bri Foster	Ahtna	Field Technician / Q	C Manager			
Jessica Feduck	Ahtna	Field Technician				
Holly Dillon	Ahtna	SSHO				
Brian Hernandez	Yellow Jacket	Driller				
Javier Rios	Yellow Jacket	Helper				
James Wolfley	Yellow Jacket	Helper				
Charles Mulvaney	Yellow Jacket	Helper				
Cody Reed Yellow Jacket Helper						
GOVERNMENT PERSONNEL						
15) Government Personn	el Onsite:					
Name	Company	Position/Title	Arrive/Depart (Day)			
Bruce Van Etten	USACE	Oversight	0800/1700			

VISITING PERSONNEL						
<b>16)</b> Visitors Onsite:						
Name	Company	Position/Title	Arrive/Depart (Day)			
Roger Van Horn	Monterey County	Inspector	1400/1530			
Christie Vo	Monterey County	Inspector	1400/1530			
Isaiah Taezol	Monterey County	Inspector	1400/1530			
Matthew Johnson	Denise Duffy & Associates	Sr. Env. Inspector	0700/1100			

DETAIL			
17) Attachments:			
1. Field Notes			
2. Well Destruction Form			
3. Follow-Up Phase Inspection			
4. Yellow Jacket Daily Drill Report			
5. Safety Tailgate			
18) Report Submitted by: Bri Foster			



19) Photos:



Description: Tremie pipe installed at MW-OU2-59-A.



Description: Pressure Test at MW-OU2-59-A.





Description: Pulling the casing out of the ground with the LAR at MW-OU2-59-A.



Description: Monitoring well is drilled down to 5' at MW-OU2-59-A.





Description: Pouring the cap on top of the monitoring well 5' bgs at MW-OU2-59-A.



Description: Covering up the monitoring well with native material at MW-OU2-59-A.





Description: MW-OU2-59-A after Well Decommissioning.



Description: Installation of the tremie pipe at MW-OU2-36-A.





Description: Monterey County Environmental Health Inspectors watch over the decommissioning process at MW-OU2-36-A.



Description: The conductor casing has been pulled up from around the monitoring well pipe at MW-OU2-36-A.





Description: MW-OU2-36-A after Well Decommissioning.



4341 B Street Suite 404 Phone Anchorage, Alaska 99503 Fax (907) 646-2969

Description: FORTORD WELL DEEDMISSIONING
MW-0U2-59.A

MW-002-36-A

Page \_ ( of \_ (

Date 27 Aug 2018

(907) 561-5475 Prepared By: R- Foster

WEATHEY:	overcast-marinely of sound off, 59/42°F, W. wind 10-15mph
CITEM:	Alapa (x1) yzllow Jackst (x5)
OSIECTIVE:	Mobilizz and Setus a MW-OUZ-59-A to decomission
visitors:	R. Van Horn, Christie Vo and South Tarzo (Montery County)
0430	Arrive = Landfill to Ment w/ Yellow Jacket, correlat Toss and discuss durry objectives
07-	conducted TASM and prep. trailers to hart spup. / Supplies to MW-OUZ-59A
0730	contact M. Johnson ( 510) to meet @ WEII lac. for 510. clearance - will meet ousite contact Roger Von Hern to update grout inspection delayed (install work) due to mg broke down - update 2. Von Horn of well decomissioning agenda - Will be outsite later this morning.
08-	conditions accessing -59A too soft/sandy for support taxters to drue; bio Flagged ROAD.
0845	SET UP @ 594 to pressure growt WEIL + take out bollards around WEIL; remove sampling live and collect MEASUREMENTS: 5" PVC, TD: 124.5; DTW: 99.05 from TOC
09-	Mixed good with mechanical Mixture inside SSGA drim - tremmie Pipe (1") lowered into well and grant pumped to ground surface
0950	6 Satches pumpied (cole approx. 130gal- x3 batches additional) - start pressure test
1005	growt dropped 4" - jackhammes concrete well pad pull protecture storie pipes and overdrall to 5ft 595 - measured to conform. concrete seat bords let and backfill natus
1050	WELL DECOMMISSION COMPLETE - loved up Equip. to MOVE to MW-OUZ-36-A
1230	Moved rig to next loc. while also loading up trailer with portland/water tote
1320	break for lyrich
14-	@ MW-OUZ-34-A, will 10 @ Well hend states:
(5)	MEANUE DTW: 38.05 39.05 5TOC; Hardtay TD: 134-70; 5" PVC Inside 12" CRASING.
24	Rug ve. Van Horn (Mont. grout inspector) onsite with two new hores
14 30	Mixing growt in 55gat drum using mechanical mixer, 6.7 portland of 5% bent 721
-30	lower " tremmie pipe to pump grout and begin pressure gouting to ground surface
1530	Mixed Approx. 3.5 batches of grouf, est. 130-140 gal growt purpled to ground surface
	KAN A 15 MIN PROSSUME trest with A 3" drop After 15 MIN-
	USE A prolemanu to Sneak apart WELL part
15 50	Pull 3' conductor easing and 10 of the 5' PVC- sprapped below grade to top of thread(@10)
. 27	backfull with grout and drilled down to 5 w/ quickretiz capping top of boreholiz for seal.
16 37	USE a prelemanue to break apart well part  Pull 3' conductor easing and 10' of the S" PVC- swapped below grade to top of thread(010')  backfull with grout and dulled down to 5' w/ quicknetiz capping top of boreholiz for sent.  Site response to organal condition with water and filling will location.  Clarry load supplies - crow done for the scope of work. Project complete.
17-	end of shift

# **Well Destruction Form**

Location: Marina Project: Fort Ord Event: Well Becommiss Completed by: Handrew Manches 8/27/18
--

Grouting information	Well/boring information		MOZE
Well/boring ID	Mw-062-59-A	MW-042-26-4	
Date	8/27/18	8/27/18	
Site	042	042	
Diameter	5"	511	
Total depth	124.5	134.70	
Estimate of grout volume	124.5	134.70	
Amount of water (gallons)	194	198	
Amount of cement (bags)	42	42	
Amount of bentonite (lbs)	98.7	98.7	
Grout weight (lbs/gallon)	13.79	13,79	
Grout volume used (gallons)	270	270	

DTW

99.05

89.05

Volume calculation formula: Gal x Depth(ft) = Estimated grout volume

Diameter	Gal	Diameter	Gal
2"	0.2	8"	2.6
4"	0.7	9"	3.3
_5"	1.0	10"	4.1
6"	1.5	11"	5.0
7"	2.0	12"	5.9



# CONSTRUCTION FOLLOW-UP PHASE INSPECTION

Contract No.: \\\\91238-14-C-0043 Task No.: \(\log\) \(\	- 2/2	73	Date: 27 Aug 20	<u> 218</u>
Project/Area of Inspection: Ford Ord Well De	- MW-0U2-5	9-A and N	M-012-36-A	_
A. Definable Features of Work: - WEII DECOMMINSION(129	- confir	us of Inspection  MED total use to water  19 Wall, Pr  and Well De	on:  well depth and  prior to pressure  SEZ-5-1 of the  scam mission workpla	у. — У. — У. — У. — У. — У. — И. — И. — И
	Quality Control Man	ager	The second of th	P.O. T. GASTEL SE

# FOLLOW-UP PHASE INSPECTION CHECKLIST

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Reporting phase of project: Have data reports been prepared in accordance with project plans?	Compare data reports to specifications detailed in planning documents.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	B.27.13
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements?	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	3.27.13
Have other definable features of work been completed in accordance to project requirements?	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	B-1 1-18

DAILY DRILL REPORT DATE: YELLOW JACKET DRILLING DRILLING LOCATION: Myring CD 36-17 RIG #: **SERVICES** 8-0803 CA HOLE# CONSTRUCTION SUPPLIES MW-007-59-A MW-002-DESCRIPTION OF ACTIVITIES Steel Well Prot FOOTAGE DRILLED 0 Steel Guard Posts FROM lush Traffic Vault: Size 700 800 Bakuly moting, gut materials, condy ags: Aspiral FOOTAGE DRILLED TO igs: Contrete Mix 300 1730 take agrif ment to location setup igs: Quick refe SAMPLES TAKEN THIS ags: Portland Type il Cement grat up, pressure test, take agricum ags: Bent mate Growt DIRT DIRT ags: Bentonite Chips Size SURFACE CONDITION ASPHALT ASPHALT ASPHALT to next location gut truck unstuck ails: Bentonite Pellets-Size CONCRETE CONCRETE CONCRETE Bags: Sand-Grade 1250 100 FROM Bags Sand-Grade ' x 5' Casing PVC/SS TO set up, grout up, prussure tus?, rumory, well box with casing, chapel drive back to lay down, unload 100 10 Casing PVC/SS FROM x 5' Screen-Slot Size: BENT " x 10' Screen-Slot Size TO **Bottom Caps** FROM BENT. lip Cap - Size SEAL TO lags: Bentonite Gei Powder FROM SAND 55 Gal. Drums - 17H Rated 600 PACK TO Visqueen Tarps 6 mil. FROM BLANK Sono Tube CASING TO FROM and concrete dur's in land field SCREEN TO FROM TO WATER DESCRIPTION UNIT NO. LEVEL DRILL RIG EMPLOYEE'S NAME HOURS PER DIEM INITIALS LAT. PIPE TRUCK: 13. A 1130 LONG CREW TRUCK ELEV TEAM CLEANER 11,30 COMPRESSOR BOBCAT/FORKLIFT 1150 BACKHOE:

# AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

GENERAL DATA	Date: 27 Aug. 201	8
Site:	Site Location:	Additional WEE (See AT STREET): (onco.)
AHTNA Site Manager: B. Fostor	AHTNA SSHO: H.DILLON	ANACAST DO / SINO PE
DOCUMENTATION OF WORKDAY SAFETY N	Communication So	aftery-good materials
Other items to address as appropriate (che	any management and the comment of th	
Scope of day's work	OSHA's Focus Four	Recent near miss / injuries / lessons
Site SH&E Plan / Revisions	☐ Fall Hazards ☐ Electrical Hazards	Lifting Safety / Materials Handling  BBS Hazard Triggers <sup>1</sup>
■ AHA's / PTSP's completed/reviewed? ■ Emergency SOPs (i.e. rally pt., tele #s)		■ BBS Trigger Controls <sup>2</sup>
Communications Check	Caught in / between Hazards	Other (heat, noise, trench, confine sp)
PPE Requirements Level 1) w/ 4/8/1		(,,,,,
MEETING ATTENDEES: (place * next to sub		SOLES LODANIEM PAIS 2 2X LODES
NAME / COMPANY	besittactor surety representatives,	NAME / COMPANY
Aux Water (DE)	Isaial tu	a zon Monterey County H
The state of the s		
harles Mulsaney (J)		11.
Javier KOS YJD	toore A.	
Cody Reed / YJD	Sylvesta to	Cosouski Ahtma
Janes Walfley (YI)		A STATE OF THE STA
Brige Hainunder - Y	10	
DAILY INSPECTIONS: (SSHO shall initial ear	l N	Y N N INSPECTION ITEM
Y N A Inspection Item	A	A OTHER (List)
Postings/Plans (APP) readily avail.	Signs (No Smoking, Site Control)    Signs (No Smoking, Site Control)	dv) 0 0 0
Designated Parking / Traffic Control  Subcontractor Safety Rep Involved		dy)
□ □ Subcontractor / Task AHA's	□ □ □ Excav./Trench/Spoils Protection	0 0 0
Subcontractor Equip. Inspections	☐ ☐ ☐ Confined Spaces Management	0 0 0
Emergency Equip. (PFE's, FA Kits)	□ □ □ Physical Barriers / Covers	
□ □ □ Eye Wash / Shower	□ □ □ Fall Hazards (Protected)	
Communications Check  Sanitation (Toilets, Hand Wash)	Ladders  D D Power & Portable Hand Tools	ISSUES TO FOLLOW-UP (Immediately Correct Deficiencies if able)
□ □ □ Water & Shade, Non-Pot Identified		NEER, (Immediately correct beneficies if abic)
□ □ Utilities Identified / Controlled	Alarms / Seatbelts Warking	
Material Storage Proper	GFCI's, Whip-Checks, Slings	
Lay Down Areas Orderly	□ □ □ Exposed Rebar Protected	
Waste Containers  Waste Containers	Safety / Health Behaviors:	
Spill Control (Pads, Snakes, Drums)	Competent / Qualified Persons	26-64
	te any uncorrected deficiencies on the APP	P Safety and Occupational Health Deficiency
Tracking Log. Comments/Field Notes:		
Commentary riela Notes.		
,		-1 -1 -1
I acknowledge that above elements perfor	ormed (SSHO/Inspector signature):	Date: 8/27/13
	V 7	7

<sup>2</sup> BBS Trigger Controls: (e.g. communicating, accountability, patience, relaxation techniques, healthy lifestyle, and adequate sleep). Ahtna Daily Site Safety Tailgate / Inspection Log, version: August 2014

BBS Triggers: (e.g. Distractions, rushing, short-cuts, frustration, exhaustion, complacency, anger, multi-tasking, mind elsewhere)

Manifesia a Mall Decembrication in a Completion Depart	Farmer Fart Ond California
Monitoring Well Decommissioning Completion Report	Former Fort Ord, California
APPENDIX B	
Monterey County Health Department Monitoring	Well Permits

•1270 Natividad Road, Salinas, CA 93906 Office (831) 755-4511 - Fax (831)796-8698



# MONITORING WELL PERMIT

PERMIT NO: HZ-18905, Well #: MW-02-12-180		
(MCEH use only: SR0018905, FEE EXEMPT)		
⊠-MONITORING W	ELLCONSTRUCTION	
☐-VAPOR EXTRACTION WELL ☐-DESTRUCTION		
Northwest of 10 <sup>th</sup> St, Marina APN #: 031-021-003	ach Range Rd, Southwest of Imjin Parkway &	
SITE CONTACT PERSON:	OWNER:	
Derek Lieberman	U.S. Army Corps of Engineers 1325 J Street	
E-MAIL: dlieberman@ahtna.net	Sacramento, CA 95814	
<b>PHONE:</b> (831) 224-3327	<b>PHONE:</b> (831) 393-9692	
CONSULTANT:	DRILLER:	
Ahtna Environmental, Inc.	Yellow Jacket Drilling Services	
296 12 <sup>th</sup> Street	9460 Lucas Ranch Road	

#### **CONDITIONS:**

SITE PLAN SHALL BE TO SCALE.

Marina, CA 93933

**PHONE:** (831) 224-3327

NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FORTHE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

DATE ISSUED: 8/7/2018

EXPIRATION DATE: 8/7/2019

**ISSUED BY:** 

Roger VanHorn, REHS

Supervising Drinking Water Protection Well Program

9460 Lucas Ranch Road

LICENSE #: C-57 1034407 **PHONE**: (909) 989-8563

Rancho Cucamonga, CA 91730

•1270 Natividad Road, Salinas, CA 93906 Office (831) 755-4511 - Fax (831)796-8698



# **MONITORING WELL PERMIT**

PERMIT NO: HZ-18906, Well #: MW-OU2-33-A			
(MCEH use o	only: SR0018906, FEE EXEMPT)		
⊠-MONITORING WEL	LCONSTRUCTION		
☐-VAPOR EXTRACTION WELL ☐-DESTRUCTION			
SITE LOCATION: Behind parking lot of YoungNak Presbytarian Church of Monterey at 23510 <sup>th</sup> Street, Marina APN #: 031-251-020			
SITE CONTACT PERSON:	OWNER:		
Derek Lieberman	U.S. Army Corps of Engineers		
	1325 J Street		
E-MAIL: dlieberman@ahtna.net	Sacramento, CA 95814		
<b>PHONE:</b> (831) 224-3327	<b>PHONE:</b> (831) 393-9692		
CONSULTANT:	DRII I FR.		

#### **CONDITIONS:**

SITE PLAN SHALL BE TO SCALE.

Ahtna Environmental, Inc.

296 12th Street

**PHONE:** (831) 224-3327

Marina, CA 93933

NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FORTHE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

**DATE ISSUED: 8/7/2018** 

EXPIRATION DATE: 8/7/2019

ISSUED BY:

Roger VanHolm, REHS

Supervising Drinking Water Protection Well Program

Yellow Jacket Drilling Services

Rancho Cucamonga, CA 91730

9460 Lucas Ranch Road

LICENSE #: C-57 1034407

PHONE: (909) 989-8563

•1270 Natividad Road, Salinas, CA 93906 Office (831) 755-4511 - Fax (831)796-8698



# **MONITORING WELL PERMIT**

PERMIT NO: HZ-18907, Well #: MW-OU2-36-A		
(MCEH use or	nly: SR0018907, FEE EXEMPT)	
⊠-MONITORING WELI	CONSTRUCTION	
☐-VAPOR EXTRACTION WELL ☐-DESTRUCTION		
SITE LOCATION: Behind residential home at 218 Hayes Circle, Marina APN #: 031-021-040		
SITE CONTACT PERSON:	OWNER:	
Derek Lieberman	U.S. Army Corps of Engineers	
	1325 J Street	
E-MAIL: dlieberman@ahtna.net	Sacramento, CA 95814	
<b>PHONE:</b> (831) 224-3327	<b>PHONE:</b> (831) 393-9692	
CONSULTANT:	DRILLER:	
Ahtna Environmental, Inc.	Yellow Jacket Drilling Services	
296 12 <sup>th</sup> Street	9460 Lucas Ranch Road	
Marina, CA 93933	Rancho Cucamonga, CA 91730	
·	LICENSE #: C-57 1034407	
<b>PHONE:</b> (831) 224-3327	<b>PHONE</b> : (909) 989-8563	

#### **CONDITIONS:**

SITE PLAN SHALL BE TO SCALE.

NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FORTHE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

**DATE ISSUED: 8/7/2018** 

EXPIRATION DATE: 8/7/2019

ISSUED BY:

Roger Van Norn, REHS

Supervising Drinking Water Protection Well Program

•1270 Natividad Road, Salinas, CA 93906 Office (831) 755-4511 - Fax (831)796-8698



### MONITORING WELL PERMIT

<b>PERMIT NO: HZ</b> -18908, Well #: MW-OU2-59-A		
(MCEH u	ise only: SR0018908, FEE EXEMPT)	
⊠-MONITORING W	/ELLCONSTRUCTION	
☐-VAPOR EXTRACTION WELL ☐-DESTRUCTION		
SITE LOCATION: Northeast	of Schoonover Drive & White Court, Marina	
APN #: 031-101-032		
SITE CONTACT PERSON:	OWNER:	
Derek Lieberman	U.S. Army Corps of Engineers	
	1325 J Street	
E-MAIL: dlieberman@ahtna.net	Sacramento, CA 95814	
<b>PHONE:</b> (831) 224-3327	<b>PHONE:</b> (831) 393-9692	
CONSULTANT:	DRILLER:	
Ahtna Environmental, Inc.	Yellow Jacket Drilling Services	
296 12 <sup>th</sup> Street	9460 Lucas Ranch Road	
Marina, CA 93933	Rancho Cucamonga, CA 91730	
<b>,</b>	LICENSE #: C-57 1034407	
<b>PHONE:</b> (831) 224-3327	<b>PHONE</b> : (909) 989-8563	

#### **CONDITIONS:**

SITE PLAN SHALL BE TO SCALE.

NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.

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DATE ISSUED: 8/7/2018

EXPIRATION DATE: 8/7/2019

ISSUED BY:

Roger VanHon, REHS

Supervising Drinking Water Protection Well Program

•1270 Natividad Road, Salinas, CA 93906 Office (831) 755-4511 - Fax (831) 796-8698



# MONITORING WELL PERMIT

PERMIT NO: HZ-18909, Well #: MW-OU2-60-A (MCEH use only: SR0018909, FEE EXEMPT)			
⊠-MONITORING WELL		CONSTRUCTION	
VAPOR EXTRACTION WELL		⊠-DESTRUCTION	
SITE LOCATION: North of Combs Court, Marina APN#: 031-101-032			
SITE CONTACT PERSON:	OWNER:		
Derek Lieberman	U.S. Arr	my Corps of Engineers	
	1325 J S	Street	
E-MAIL: dlieberman@ahtna.net	Sacrame	ento, CA 95814	}
<b>PHONE:</b> (831) 224-3327	<b>PHONE:</b> (831)	) 393-9692	
CONSULTANT:	DRILLER:		
Ahtna Environmental, Inc.	Yellow Ja	acket Drilling Services	
296 12 <sup>th</sup> Street	9460 Luc	9460 Lucas Ranch Road	
Marina, CA 93933	Rancho C	Cucamonga, CA 91730	
	LICENSE #: C	<b>3</b> ·	
<b>PHONE:</b> (831) 224-3327	<b>PHONE</b> : (909)	989-8563	

#### **CONDITIONS:**

SITE PLAN SHALL BE TO SCALE.

NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OF DESTRUCTION OF ANY TYPE OF WELL.

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FORTHE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

**DATE ISSUED: 8/7/2018** 

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Supervising Drinking Water Protection Well Program

•1270 Natividad Road, Salinas, CA 93906 Office (831) 755-4511 - Fax (831)796-8698



# **MONITORING WELL PERMIT**

PERMIT NO: HZ-18910, Well #: MW-BW-62-A (MCEH use only: SR0018910, FEE EXEMPT)		
⊠-MONITORING W	/ELLCONSTRUCTION	
☐-VAPOR EXTRACTION WELL ☐-DESTRUCTION		
SITE LOCATION: Parking lo	ot area of Lexington Court, Marina	
APN #: 031-271-009		
SITE CONTACT PERSON:	OWNER:	
Derek Lieberman	U.S. Army Corps of Engineers	
	1325 J Street	
<i>E-MAIL:</i> dlieberman@ahtna.net	Sacramento, CA 95814	
<b>PHONE:</b> (831) 224-3327	<b>PHONE:</b> (831) 393-9692	
CONSULTANT:	DRILLER:	
Ahtna Environmental, Inc.	Yellow Jacket Drilling Services	
296 12 <sup>th</sup> Street	9460 Lucas Ranch Road	
Marina, CA 93933	Rancho Cucamonga, CA 91730	
	LICENSE #: C-57 1034407	
PHONE: (831) 224-3327	<b>PHONE</b> : (909) 989,8563	

#### **CONDITIONS:**

SITE PLAN SHALL BE TO SCALE.

NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FORTHE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

**DATE ISSUED: 8/7/2018** 

EXPIRATION DATE: 8/7/2019

ISSUED BY:

Roger VanHorn, REHS

Supervising Drinking Water Protection Well Program

•1270 Natividad Road, Salinas, CA 93906 Office (831) 755-4511 - Fax (831)796-8698



# **MONITORING WELL PERMIT**

PERMIT NO: HZ-18911, Well #: MW-BW-64-A (MCEH use only: SR0018911, FEE EXEMPT)			
⊠-MONITORING W	ELLCONSTRUCTION		
☐-VAPOR EXTRACTION WELL ☐-DESTRUCTION			
SITE LOCATION: Parking lot area of Ready Court, Marina APN #: 031-201-027			
SITE CONTACT PERSON:	OWNER:		
Derek Lieberman	U.S. Army Corps of Engineers		
	1325 J Street		
E-MAIL: dlieberman@ahtna.net	Sacramento, CA 95814		
<b>PHONE:</b> (831) 224-3327	<b>PHONE:</b> (831) 393-9692		
CONSULTANT:	DRILLER:		
Ahtna Environmental, Inc.	Yellow Jacket Drilling Services		
296 12 <sup>th</sup> Street	9460 Lucas Ranch Road		
Marina, CA 93933	Rancho Cucamonga, CA 91730		
	LICENSE #: C-57 1034407		
<b>PHONE:</b> (831) 224-3327	<b>PHONE</b> : (909) 989-8563		

#### **CONDITIONS:**

SITE PLAN SHALL BE TO SCALE.

NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FORTHE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

DATE ISSUED: 8/7/2018,

EXPIRATION DATE: 8/7/2019

ISSUED BY:

Roger VanHarn, REHS

Supervising Drinking Water Protection Well Program

•1270 Natividad Road, Salinas, CA 93906 Office (831) 755-4511 - Fax (831)796-8698



# **MONITORING WELL PERMIT**

<b>PERMIT NO: HZ-</b> 18912, Well #: MW-BW-68-A		
(MCEH use only: SR0018912, FEE EXEMPT)		
⊠-MONITORING WELL	CONSTRUCTION	
☐-VAPOR EXTRACTION WELL ☐-DESTRUCTION		
SITE LOCATION: North of Lexing	gton Court & West of Ready Court, Marina	
APN #: 031-201-027		
SITE CONTACT PERSON:	OWNER:	
Derek Lieberman	U.S. Army Corps of Engineers	
	1325 J Street	
<i>E-MAIL:</i> dlieberman@ahtna.net	Sacramento, CA 95814	
<b>PHONE:</b> (831) 224-3327	<b>PHONE:</b> (831) 393-9692	
CONSULTANT:	DRILLER:	
Ahtna Environmental, Inc.	Yellow Jacket Drilling Services	
296 12 <sup>th</sup> Street	9460 Lucas Ranch Road	
Marina, CA 93933	Rancho Cucamonga, CA 91730	
*	LICENSE #: C-57 1034407	
<b>PHONE:</b> (831) 224-3327	<b>PHONE</b> : (909) 989-8563	

#### **CONDITIONS:**

SITE PLAN SHALL BE TO SCALE.

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**DATE ISSUED: 8/7/2018** 

EXPIRATION DATE: 8/7/2019

**ISSUED BY:** 

Roger VanHern, REHS

Supervising Drinking Water Protection Well Program

•1270 Natividad Road, Salinas, CA 93906 Office (831) 755-4511 - Fax (831) 796-8698



# **MONITORING WELL PERMIT**

<b>PERMIT NO: HZ-</b> 18913, Well #: MW-BW-69-A			
(MCEH u	(MCEH use only: SR0018913, FEE EXEMPT)		
⊠-MONITORING W	/ELLCONSTRUCTION		
☐-VAPOR EXTRACTION WELL ☐-DESTRUCTION			
SITE LOCATION: North of L	exington Court & West of Ready Court, Marina		
APN #: 031-201-027			
SITE CONTACT PERSON:	OWNER:		
Derek Lieberman	U.S. Army Corps of Engineers		
	1325 J Street		
E-MAIL: dlieberman@ahtna.net	Sacramento, CA 95814		
<b>PHONE:</b> (831) 224-3327	<b>PHONE:</b> (831) 393-9692		
CONSULTANT:	DRILLER:		
Ahtna Environmental, Inc.	Yellow Jacket Drilling Services		
296 12 <sup>th</sup> Street	9460 Lucas Ranch Road		
Marina, CA 93933	Rancho Cucamonga, CA 91730		
,	LICENSE #: C-57 1034407		
<b>PHONE:</b> (831) 224-3327	<b>PHONE</b> : (909) 989-8563		

#### **CONDITIONS:**

SITE PLAN SHALL BE TO SCALE.

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**DATE ISSUED: 8/6/2018** 

EXPIRATION DATE: 8/6/2019

ISSUED BY:

Roger VanHorn, REHS

Supervising Drinking Water Protection Well Program

• 1270 Natividad Road, Salinas, CA 93906 Office (831) 755-4511 - Fax (831)796-8698



# **MONITORING WELL PERMIT**

<b>PERMIT NO: HZ-</b> 18914, Well #: MW-BW-70-A		
(MCEH use only: SR0018914, FEE EXEMPT)		
	CONSTRUCTION	
☐-VAPOR EXTRACTION WELL		
SITE LOCATION: East of Lexington Court and West of Imjin Parkway, Marina APN #: 031-081-010		
SITE CONTACT PERSON:	OWNER:	
Derek Lieberman	U.S. Army Corps of Engineers	
	1325 J Street	
<i>E-MAIL:</i> dlieberman@ahtna.net	Sacramento, CA 95814	
<b>PHONE:</b> (831) 224-3327	<b>PHONE:</b> (831) 393-9692	
CONSULTANT:	DRILLER:	
Ahtna Environmental, Inc.	Yellow Jacket Drilling Services	
296 12 <sup>th</sup> Street	9460 Lucas Ranch Road	
Marina, CA 93933	Rancho Cucamonga, CA 91730	
	LICENSE #: C-57 1034407	
<b>PHONE:</b> (831) 224-3327	<b>PHONE</b> : (909) 989-8563	

#### **CONDITIONS:**

SITE PLAN SHALL BE TO SCALE.

NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.

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**DATE ISSUED: 8/7/2018** 

EXPIRATION DATE: 8/7/2019

ISSUED BY:

Roger VanHorn, REHS

Supervising Drinking Water Protection Well Program

• 1270 Natividad Road, Salinas, CA 93906 Office (831) 755-4511 - Fax (831) 796-8698



# MONITORING WELL PERMIT

<b>PERMIT NO: HZ-</b> 18915, Well #: MW-BW-20-180					
(MCEH use only: SR0018915, FEE EXEMPT)					
	CONSTRUCTION				
VAPOR EXTRACTION	N WELL				
SITE LOCATION: South of Reservation Rd & North of Bailey Court, Marina APN #: 031-271-008					
SITE CONTACT PERSON:	OWNER:				
Derek Lieberman	U.S. Army Corps of Engineers				
	1325 J Street				
E-MAIL: dlieberman@ahtna.net	Sacramento, CA 95814				
<b>PHONE:</b> (831) 224-3327	<b>PHONE:</b> (831) 393-9692				
CONSULTANT:	DRILLER:				
Ahtna Environmental, Inc.	Yellow Jacket Drilling Services				
296 12 <sup>th</sup> Street	9460 Lucas Ranch Road				
Marina, CA 93933	Rancho Cucamonga, CA 91730				
	LICENSE #: C-57 1034407				
<b>PHONE:</b> (831) 224-3327	<b>PHONE</b> : (909) 989-8563				

#### **CONDITIONS:**

SITE PLAN SHALL BE TO SCALE.

NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FORTHE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

**DATE ISSUED: 8/7/2018** 

EXPIRATION DATE: 8/7/2019

ISSUED BY:

Roger VanHon, REHS

Supervising Drinking Water Protection Well Program

•1270 Natividad Road, Salinas, CA 93906 Office (831) 755-4511 - Fax (831)796-8698



# MONITORING WELL PERMIT

<b>PERMIT NO: HZ-</b> 18916, Well #: MW-BW-22-180					
(MCEH use only: SR0018916, FEE EXEMPT)					
⊠-MONITORING WELL	CONSTRUCTION				
VAPOR EXTRACTION	N WELL				
SITE LOCATION: South of Reserve APN #: 031-271-008	ation Rd & North of Wittenmyer Court, Marina				
SITE CONTACT PERSON:	OWNER:				
Derek Lieberman	U.S. Army Corps of Engineers				
	1325 J Street				
E-MAIL: dlieberman@ahtna.net	Sacramento, CA 95814				
<b>PHONE:</b> (831) 224-3327	<b>PHONE:</b> (831) 393-9692				
CONSULTANT:	DRILLER:				
Ahtna Environmental, Inc.	Yellow Jacket Drilling Services				
296 12 <sup>th</sup> Street	9460 Lucas Ranch Road				
Marina, CA 93933	Rancho Cucamonga, CA 91730				
	LICENSE #: C-57 1034407				
<b>PHONE:</b> (831) 224-3327	<b>PHONE</b> : (909) 989-8563				

#### **CONDITIONS:**

SITE PLAN SHALL BE TO SCALE.

NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.

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**DATE ISSUED: 8/7/2018** 

EXPIRATION DATE: 8/7/2019

ISSUED BY:

Roger VanHorn, REHS

Supervising Drinking Water Protection Well Program

•1270 Natividad Road, Salinas, CA 93906 Office (831) 755-4511 - Fax (831) 796-8698



# MONITORING WELL PERMIT

<b>PERMIT NO: HZ-</b> 18917, Well #: MW-BW-29-180						
(MCEH use only: SR0018917, FEE EXEMPT)						
<u> </u>						
⊠-MONITORING WEL	LCONSTRUCTION					
-VAPOR EXTRACTION	ON WELL STRUCTION					
SITE LOCATION: North of Reservation Rd & West of Imjin Parkway in UC						
Reserve, Marina						
APN #: 031-111-032						
AFN #: 031-111-032						
SITE CONTACT PERSON:	OWNER:					
Derek Lieberman	U.S. Army Corps of Engineers					
	1325 J Street					
E-MAIL: dlieberman@ahtna.net	Sacramento, CA 95814					
<b>PHONE:</b> (831) 224-3327	<b>PHONE:</b> (831) 393-9692					
CONSULTANT:	DRILLER:					
Ahtna Environmental, Inc.	Yellow Jacket Drilling Services					
296 12 <sup>th</sup> Street	9460 Lucas Ranch Road					
Marina, CA 93933	Rancho Cucamonga, CA 91730					
	LICENSE #: C-57 1034407					
<b>PHONE:</b> (831) 224-3327	<b>PHONE</b> : (909) 989-8563					

#### **CONDITIONS:**

SITE PLAN SHALL BE TO SCALE.

NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FORTHE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS).

*DATE ISSUED: 8/7/2018* 

EXPIRATION DATE: 8/7/2019

ISSUED BY:

Roger VanHorn, REHS

Supervising Drinking Water Protection Well Program

Former Fort Ord, California

# **APPENDIX C**

Well Decommissioning Logs

WELL DESTRUCTIONS - GINT STD US LAB.GDT - 10/1/18 16:15 - C:USERSIPUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\DECOM\GPJ

WELL DESTRUCTIONS - GINT STD US LAB. GDT - 10/1/18 16:15 - C:USERSIPUBLICIDOCUMENTSIBENTLEYGINTIPROJECTSIDECOM. GPJ

WELL DESTRUCTIONS - GINT STD US LAB.GDT - 10/1/18 16:15 - C. USERS/PUBLIC/DOCUMENTS/BENTLEY/GINT/PROJECTS/DECOM.GPJ

WELL DESTRUCTIONS - GINT STD US LAB. GDT - 10/1/18 16:16 - C:USERSIPUBLICIDOCUMENTSIBENTLEYGINTIPROJECTSIDECOM. GPJ

CLIEN	<b>T</b> <u>U.S. A</u> rı	my Corps of Engineers	PROJECT NAME 2018 Well Decommissioning		
		ER W91238-14-C-0048	PROJECT LOCATION Former Fort Ord, California		
DEPTH (ft)		WELLADAN	DONIMENT PROFILE		
DEI (t	WELL ABANDONMENT PROFILE				
	× / 4 / / ¥ / /				
110		- Pressure Grouted with 95% Portland Cement 5% B	sentonite Grout by tremmie pipe 5-198.70 ft bgs		
120					
_					
130					
140					
150					
160					
130 140 					
ı					

WELL DESTRUCTIONS - GINT STD US LAB.GDT - 10/1/18 16:16 - C. USERS/PUBLIC/DOCUMENTS/BENTLEY/GINT/PROJECTS/DECOM.GPJ



PAGE 3 OF 4 CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning PROJECT NUMBER <u>W91238-14-C-0048</u> PROJECT LOCATION Former Fort Ord, California DEPTH (ft) WELL ABANDONMENT PROFILE 110 Pressure Grouted with 95% Portland Cement 5% Bentonite Grout by tremmie pipe 5-198.70 ft bgs 130 150 160



PAGE 3 OF 4 CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning PROJECT NUMBER <u>W91238-14-C-0048</u> PROJECT LOCATION Former Fort Ord, California DEPTH (ft) WELL ABANDONMENT PROFILE 110 Pressure Grouted with 95% Portland Cement 5% Bentonite Grout by tremmie pipe 1-220.80 ft bgs 130 150 160

Ahtna PAGE 4 OF 4 CLIENT U.S. Army Corps of Engineers PROJECT NAME 2018 Well Decommissioning PROJECT NUMBER W91238-14-C-0048 PROJECT LOCATION Former Fort Ord, California DEPTH (ft) WELL ABANDONMENT PROFILE 170 Pressure Grouted with 95% Portland Cement 5% Bentonite Grout by tremmie pipe 1-220.80 ft bgs 180 190 Pressure Grouted with 95% Portland Cement 5% Bentonite Grout by tremmie pipe 1-220.80 ft bgs 210 Total Depth = 220.80 ft bgs

A	htna	Well ID:MW-BW-62-A PAGE 2 OF 3
	T U.S. Army Corps of Engineers	PROJECT LOCATION Former Fort Ord California
PROJ	ECT NUMBER W91238-14-C-0048	PROJECT LOCATION Former Fort Ord, California
DEPTH (ft)	WELL ABANDO	DNMENT PROFILE
50		
	- Pressure Grouted with 95% Portland Cement 5% Ben	ntonite Grout by tremmie pipe 5-126 ft bgs
80  		
90		

(Continued Next Page)

A	rhtna	Well ID:MW-BW-64-A PAGE 2 OF 3
CLIEN	NT U.S. Army Corps of Engineers  ECT NUMBER _W91238-14-C-0048	PROJECT NAME 2018 Well Decommissioning PROJECT LOCATION Former Fort Ord, California
DEPTH (ft)		WELL ABANDONMENT PROFILE
50		
60 70		
80	- Pressure Grouted with 95% Por	tland Cement 5% Bentonite Grout by tremmie pipe 5-127.05 ft bgs
  90 		

A	Ahtna		Well ID:MW-BW-68-A PAGE 1 OF 2		
		rmy Corps of Engineers	PROJECT NAME 2018 Well Deco	mmissioning	
			PROJECT LOCATION Former For		
		TRACTOR Yellow Jacket Drilling	LOGGED BY A. Mauck	CHECKED BY H. Dillon	
o DEPTH (ft)		WELL ABANDO	ONMENT PROFILE		
		- Backfilled with native material 0-5 ft bgs - Well casing and annular seal removed 0-5 ft bgs			
10		- Concrete Cap at 5 ft bgs - Pressure Grouted with 95% Portland Cement 5% Ber	ntonite Grout by tremmie pipe 5-89.90 ft bg	S	
30					

(Continued Next Page)

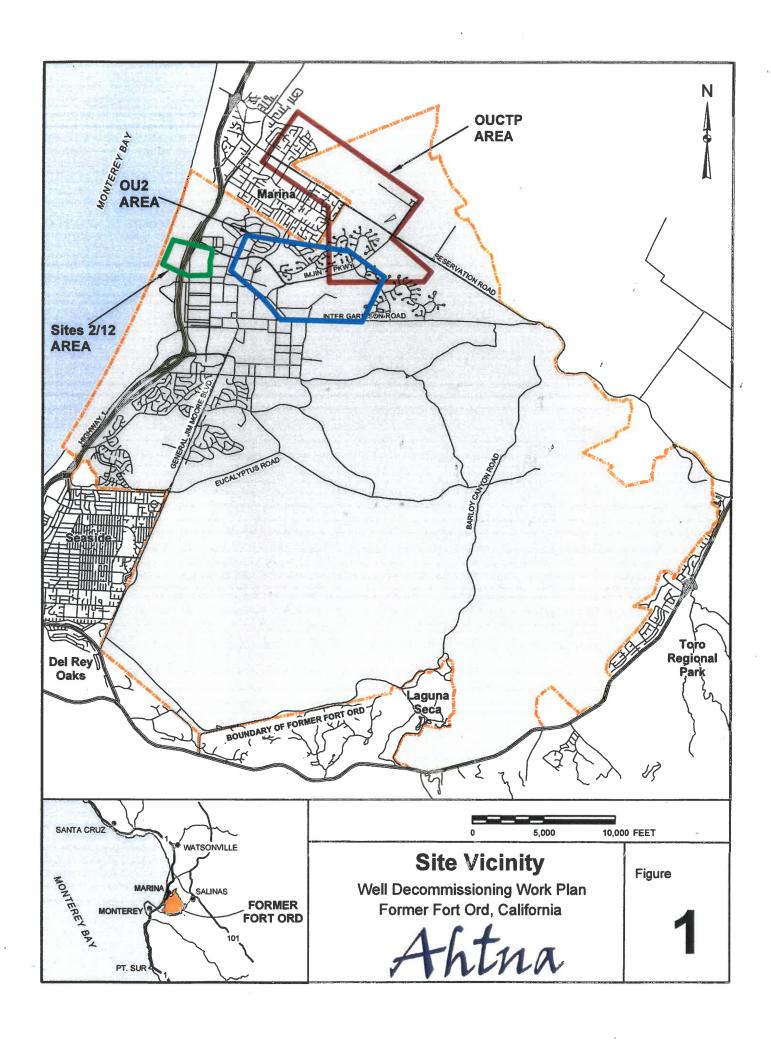
A	Ahtna		Well ID:MW-BW-69-A PAGE 1 OF 2		
		rmy Corps of Engineers	PROJECT NAME 2018 Well Decor	mmissioning	
			PROJECT LOCATION Former For		
		TRACTOR Yellow Jacket Drilling	LOGGED BY A. Mauck	CHECKED BY H. Dillon	
O DEPTH (ft)		WELL ABANDO	DNMENT PROFILE		
		- Backfilled with native material 0-5 ft bgs - Well casing and annular seal removed 0-5 ft bgs			
10		- Concrete Cap at 5 ft bgs - Pressure Grouted with 95% Portland Cement 5% Ber	ntonite Grout by tremmie pipe 5-90.70 ft bgs	S	
40					

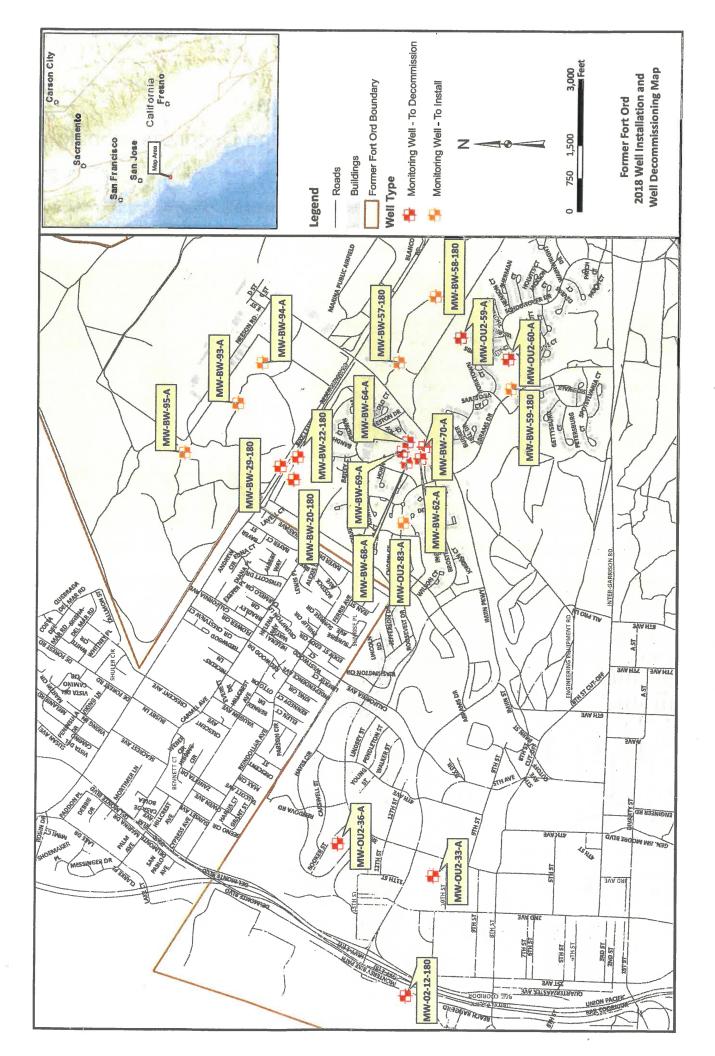
A	Ahtna		Well ID:MW-BW-70-A PAGE 1 OF 2		
CLIENT U.S. Army Corps of Engineers		rmy Corps of Engineers	PROJECT NAME _2018 Well Decor	mmissioning	
			PROJECT LOCATION Former For		
DATE STARTED 8/24/18 COMPLETED 8/24/18  DRILLING CONTRACTOR Yellow Jacket Drilling  DRILLING METHOD Pressure Grout		TRACTOR Yellow Jacket Drilling	LOGGED BY A. Mauck	CHECKED BY H. Dillon	
O DEPTH (ft)		WELL ABANDO	DNMENT PROFILE		
		- Backfilled with native material 0-5 ft bgs - Well casing and annular seal removed 0-5 ft bgs			
10		- Concrete Cap at 5 ft bgs - Pressure Grouted with 95% Portland Cement 5% Ber	ntonite Grout by tremmie pipe 5-91.50 ft bgs	S	
40					

100

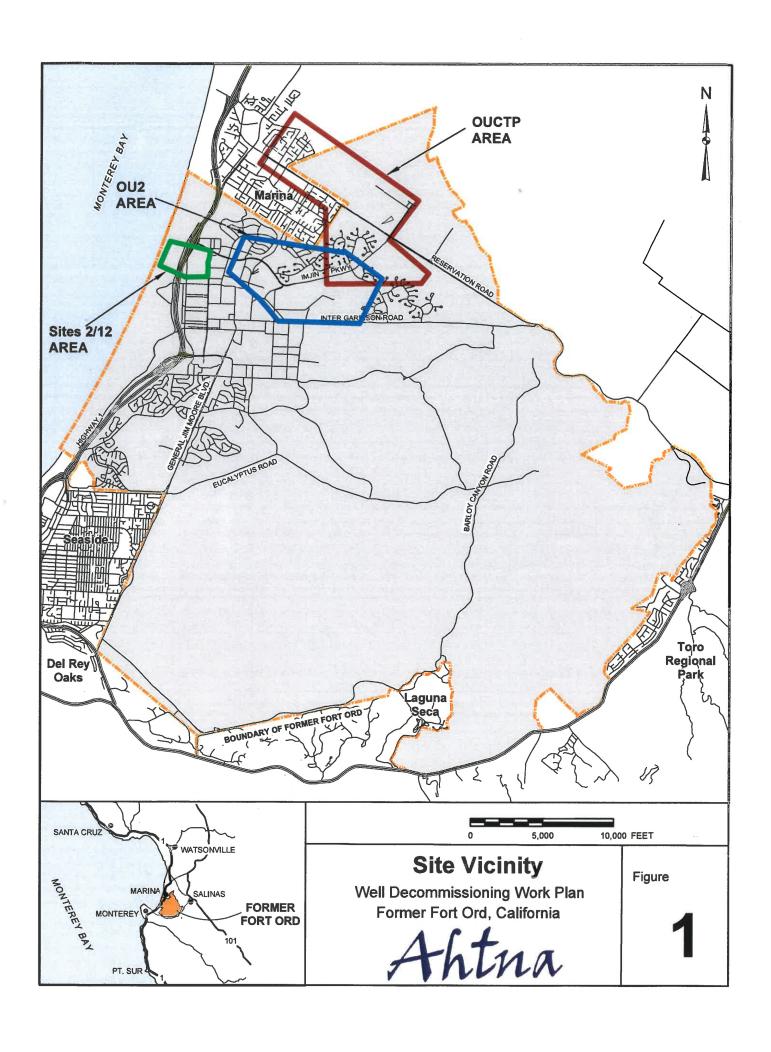
Monitoring Well Decommissioning Completion Report	Former Fort Ord, California
APPENDIX D	
State of California Well Completion Repo	rts

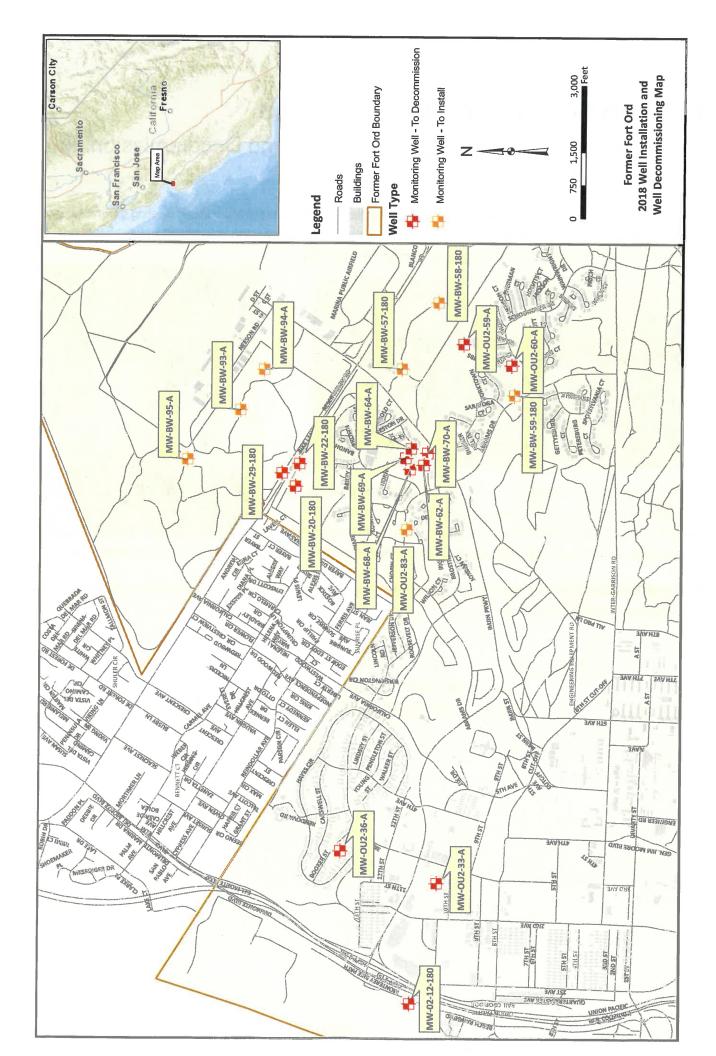
\*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** Page 1 \_\_\_ of <u>3</u> Refer to Instruction Pamphlet State Well Number/Site Number Owner's Well Number MW-02-12-180 No. e0370698 N 1 1 Date Work Began 08/21/2018 Date Work Ended <u>8/28/2018</u> Latitude Longitude Local Permit Agency MONTEREY COUNTY HEALTH DEPARTMENT APN/TRS/Other \_\_\_\_\_ Permit Date <u>8/7/18</u> Permit Number HZ-18905 **Geologic Log** Well Owner (confidential pursuant to CA Water Code 13752) O Horizontal OAngle Name US ARMY CORPS OF ENGINEERS Specify Drilling Method Drilling Fluid Mailing Address 1325 J STREET **Depth from Surface** Description Zip <u>95</u>814 City SACRAMENTO State CA Feet to Feet Describe material, grain size, color, etc PRESSURE ABANDON CEMENT GROUT **Well Location DRILL OUT TOP 1 FOOT** Address \_ City \_\_ N Longitude \_\_\_\_\_\_ Latitude \_ Deg. Min. Sec. Datum 031 Dec. Lat. 121 Dec. Long. 003 APN Book \_\_\_\_\_ Page \_\_\_ Parcel \_ Township \_\_\_\_\_Range \_ Section \_ Location Sketch Activity (Sketch must be drawn by hand after form is printed.) O New Well North Modification/Repair see Allached O Deepen O Other\_ Destroy Describe procedures and materials under "GEOLOGIC LOG" **Planned Uses** O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection Monitoring O Remediation O Sparging O Test Well South O Vapor Extraction Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. O Other Please be accurate and complete. Water Level and Yield of Completed Well Depth to first water \_ (Feet below surface) Depth to Static Water Level (Feet) Date Measured Total Depth of Boring Estimated Yield \* (GPM) Test Type Feet Test Length \_ \_\_ (Hours) Total Drawdown Total Depth of Completed Well \*May not be representative of a well's long term yield. Casings **Annular Material** Depth from **Borehole** Wall Outside Screen **Slot Size** Depth from Material Type Surface Diameter Thickness Diameter Type if Any Surface Fill Description Feet to Feet (Inches) (Inches) (Inches) (Inches) Feet to Feet **Attachments Certification Statement** I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name YELLOW JACKET DRILLING SERVICES, LLC ☐ Geologic Log ☐ Well Construction Diagram Person, Firm or Corporation 9460 LUCAS RANCH RD ☐ Geophysical Log(s) RANCHO CUCAMON <u>CA 91730</u> ☐ Soil/Water Chemical Analyses State Zip 10/8/2018 1034407 ☑ Other Map C-57 Licensed Water Well Contractor Date Signed ttach additional information, if it exists. C-57 License Number





\*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** Page 1 of 3 Refer to Instruction Pamphlet State Well Number/Site Number Owner's Well Number MW-BW-29-180 No. e0370695 N W Date Work Began 08/21/2018 Date Work Ended 8/28/2018 Latitude Longitude Local Permit Agency MONTEREY COUNTY HEALTH DEPARTMENT APN/TRS/Other Permit Number <u>HZ-18917</u> Permit Date <u>8/7/18</u> Geologic Log Well Owner (confidential pursuant to CA Water Code 13752) Orientation O Vertical O Horizontal **O**Angle Specify\_ Name US ARMY CORPS OF ENGINEERS Drilling Method **Drilling Fluid** Mailing Address 1325 J STREET Depth from Surface Description City SACRAMENTO State CA 95814 Feet to Feet Describe material, grain size, color, etc PRESSURE ABANDON CEMENT GROUT Well Location **DRILL OUT TOP 1 FOOT** Address \_\_\_ City \_ Latitude \_\_\_\_\_ \_ \_ N Longitude \_\_\_\_ \_ Deg. Min. Sec. N Longitude \_\_\_\_ Deg. Min. W Datum 031 Dec. Lat. 111 Dec. Long. 032 APN Book \_\_\_\_\_ Page \_\_\_\_ Parcel \_\_\_\_\_ Township \_\_\_ \_ Range \_\_\_ Section \_ Location Sketch Activity (Sketch must be drawn by hand after form is printed.) O New Well North O Modification/Repair O Deepen see Attoched O Other\_ Destroy Describe procedures and materials under "GEOLOGIC LOG" **Planned Uses** O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection Monitoring O Remediation O Sparging O Test Well South O Vapor Extraction illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete. O Other Water Level and Yield of Completed Well Depth to first water \_ \_ (Feet below surface) Depth to Static Water Level \_\_\_ (Feet) Date Measured\_\_ **Total Depth of Boring** Feet Estimated Yield \* \_ \_\_\_\_ (GPM) Test Type \_\_ Test Length \_ (Hours) Total Drawdown Total Depth of Completed Well Feet \*May not be representative of a well's long term yield. Casings **Annular Material** Depth from **Borehole** Wall Outside Slot Size Screen Depth from Type Material Surface Diameter Thickness Diameter if Any Fill **Type** Surface Description Feet to Feet (Inches) (Inches) Feet to Feet (Inches) **Attachments Certification Statement** ☐ Geologic Log I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name YELLOW JACKET DRILLING SERVICES, LLC ☐ Well Construction Diagram Person, Firm or Corporation 9460 LUCAS RANCH RD ☐ Geophysical Log(s) RANCHO CUCAMON CA 91730 ☐ Soil/Water Chemical Analyses State Zip 10/8/2018 ☑ Other Map 1034407 C-57 Licensed Water Well Contractor Attach additional information, if it exists. Date Signed C-57 License Number





\*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** \_\_ of <u>3</u> Page 1 Refer to Instruction Pamphlet Owner's Well Number MW-BW-64-A No. e0370546 N W Date Work Began 08/21/2018 Date Work Ended 8/28/2018 Longitude Local Permit Agency MONTEREY COUNTY HEALTH DEPARTMENT Permit Number HZ-18911 Permit Date 8/7/18 **Geologic Log** Well Owner (confidential pursuant to CA Water Code 13752) O Horizontal **O**Angle Specify\_ Name US ARMY CORPS OF ENGINEERS **Drilling Method Drilling Fluid** Mailing Address 1325 J. STREET **Depth from Surface** Description City SACRAMENTO Zip 95814 State CA Feet to Feet Describe material, grain size, color, etc **Well Location** PRESSURE ABANDON CEMENT GROUT Address \_ **DRILL OUT TOP 5 FEET** City \_ \_\_ County \_ N Longitude \_\_\_\_\_ Min. Latitude \_ Deg. Min. Sec. Sec Datum\_ \_ Dec. Lat. \_\_ Dec. Long.\_ APN Book <u>031</u> Page <u>201</u> Parcel 027 Township \_\_\_ \_Range. Section . Location Sketch Activity (Sketch must be drawn by hand after form is printed.) O New Well North O Modification/Repair O Deepen See Attached O Other\_ Destroy Describe procedures and materials under "GEOLOGIC LOG" Planned Uses O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection Monitoring O Remediation O Sparging O Test Well O Vapor Extraction Illustrate or describe distance of well from roads, buildings, fences rivers, etc. and attach a map. Use additional paper if necessary. O Other Water Level and Yield of Completed Well Depth to first water \_ \_ (Feet below surface) Depth to Static Water Level \_ (Feet) Date Measured Estimated Yield \* Total Depth of Boring Feet \_ (GPM) Test Type \_ Test Length \_\_ (Hours) Total Drawdown Total Depth of Completed Well Feet \*May not be representative of a well's long term yield. **Annular Material** Casings Depth from Borehole Wall Outside Screen Slot Size Depth from Type Material Surface Diameter **Thickness Diameter** Туре if Any Surface Fill Description Feet to Feet (Inches) (Inches) (Inches) (Inches) Feet to Feet **Attachments Certification Statement** I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name YELLOW JACKET DRILLING SERVICES, LLC ☐ Geologic Log ☐ Well Construction Diagram Person, Firm or Corporation 9460 LUCAS RANCH RD ☐ Geophysical Log(s) RANCHO CUCAMONS ☐ Soil/Water Chemical Analyses State

☑ Other MAPS

Attach additional information, if it exists.

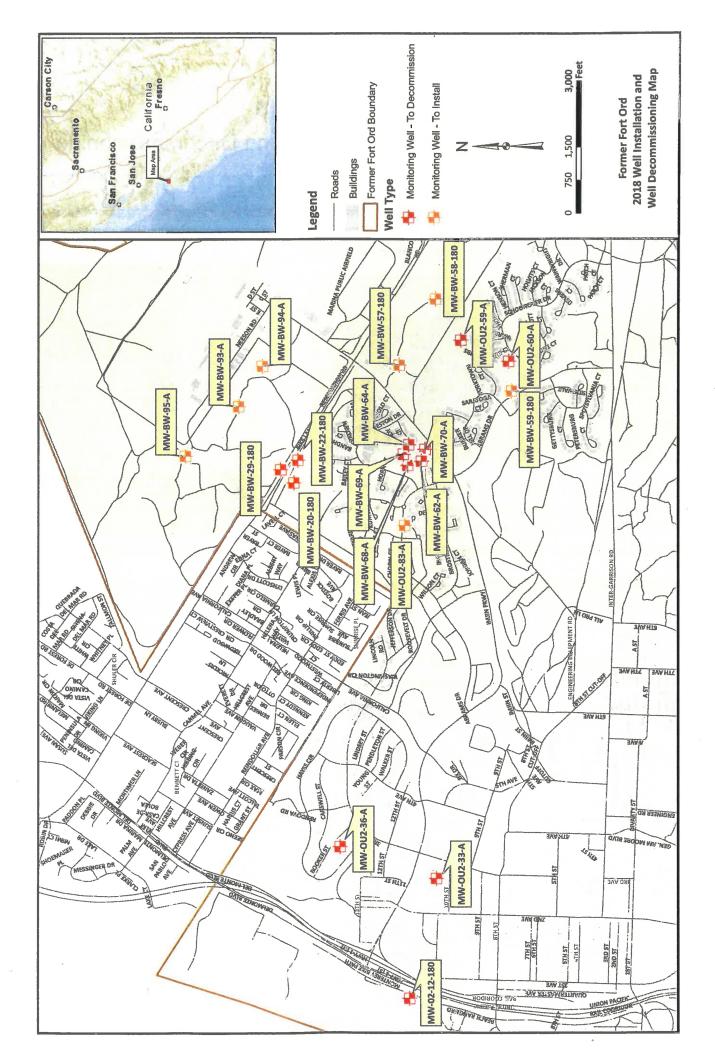
C-57 Licensed Water Well Contractor

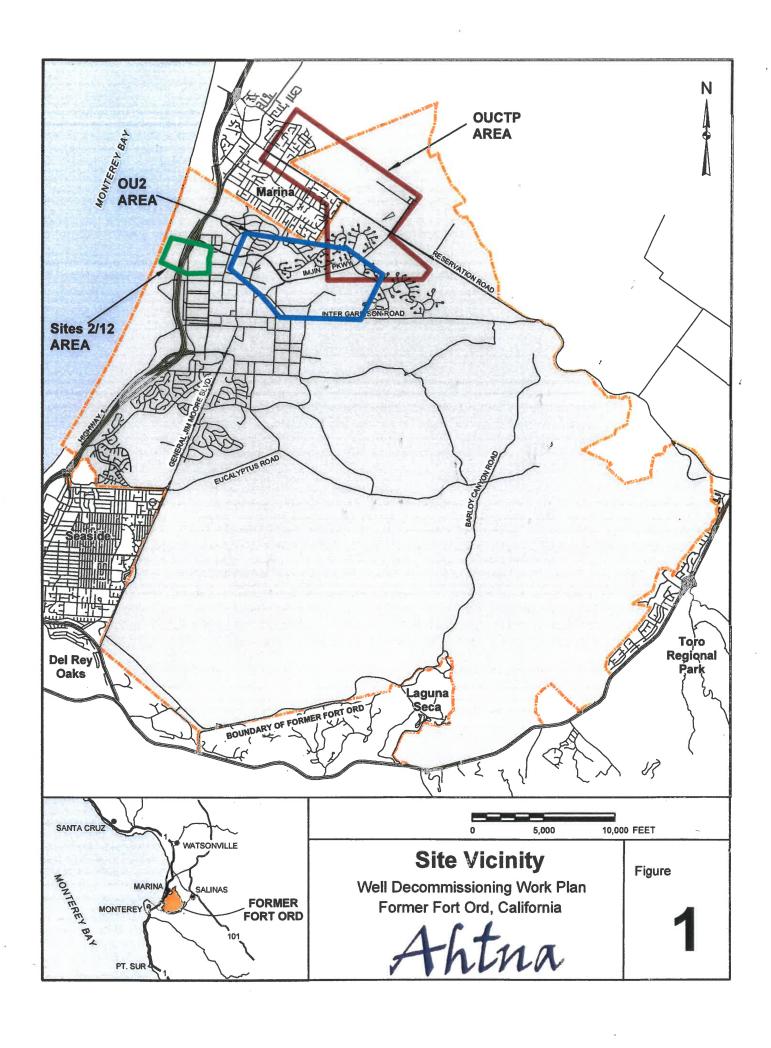
10/8/2018

Date Signed

1034407

C-57 License Number





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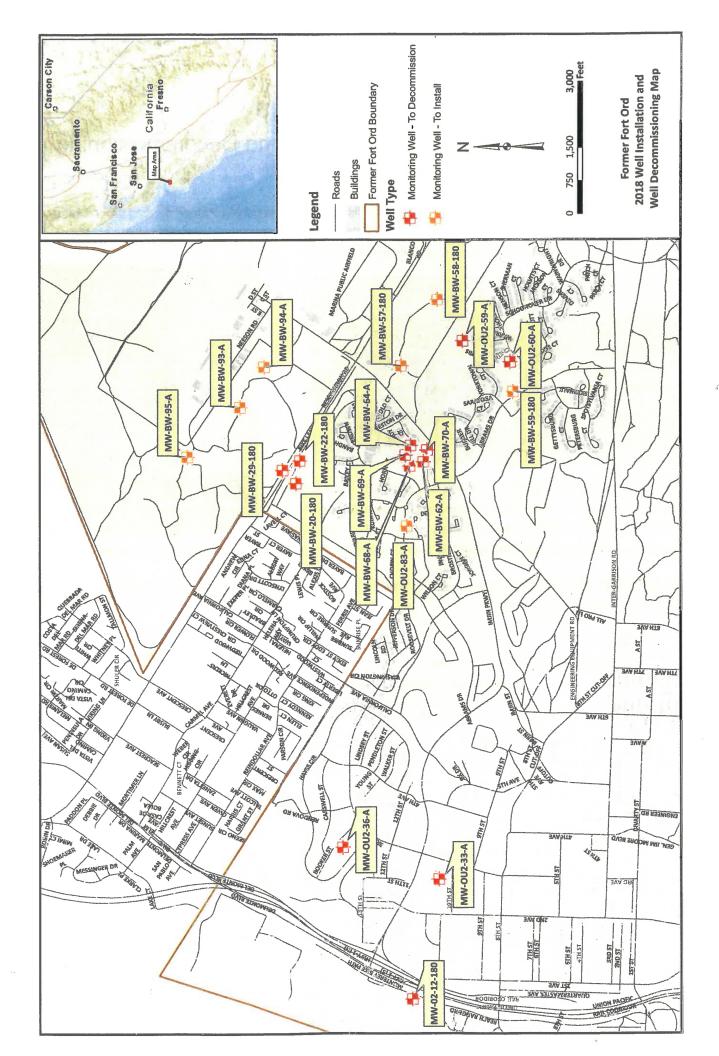
☑ Other MAPS

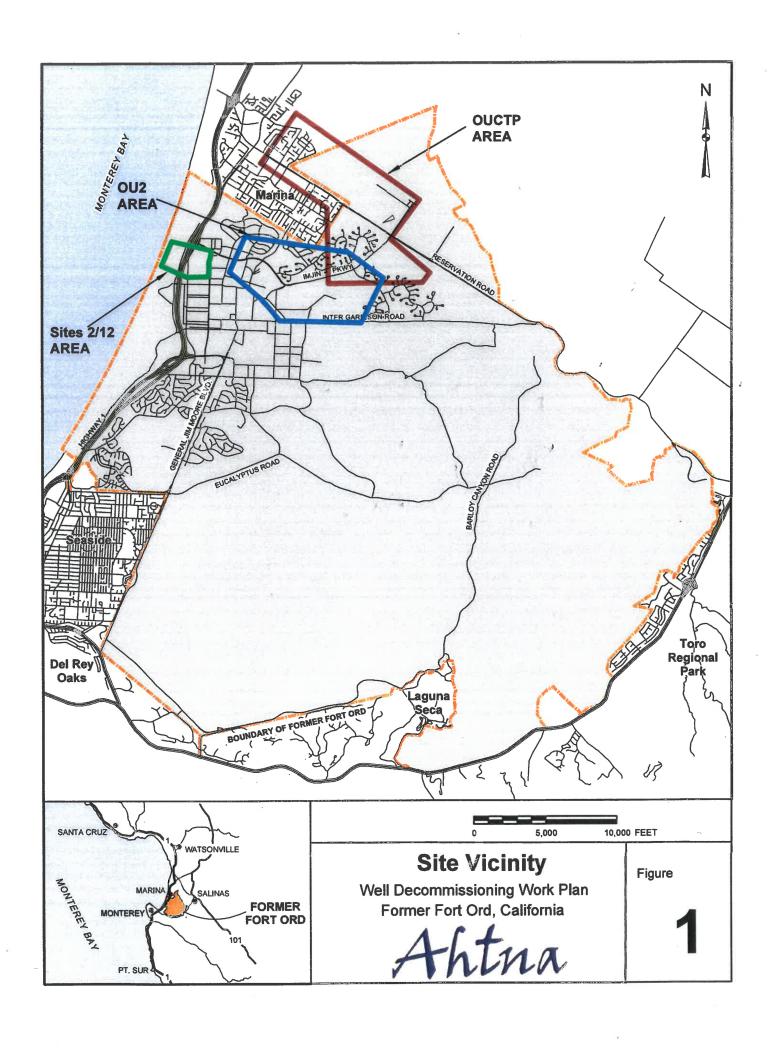
10/8/2018

Date Signed

1034407

C-57 License Number





\*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** \_ of 3 Page 1 Refer to Instruction Pamphlet State Well Number/Site Number Owner's Well Number MW-0U2-60-A No. e0370543 N W Date Work Began <u>08/21/2018</u> Date Work Ended 8/28/2018 Longitude Local Permit Agency MONTEREY COUNTY HEALTH DEPARTMENT Permit Number HZ-18909 APN/TRS/Other Permit Date 8/7/18 Geologic Log Well Owner (confidential pursuant to CA Water Code 13752) O Horizontal **O**Angle Specify\_ Name US ARMY CORPS OF ENGINEERS Drilling Method **Drilling Fluid** Mailing Address 1325 J. STREET **Depth from Surface** Description City SACRAMENTO 95814 Feet to Feet Describe material, grain size, color, etc **Well Location** PRESSURE ABANDON CEMENT GROUT Address \_ **DRILL OUT TOP 5 FEET** City \_ County\_ N Longitude \_\_\_\_\_ Min. Latitude \_ Deg. Min. Sec. Datum\_ Dec. Lat. \_ Dec. Long.\_ APN Book <u>031</u> Page 101 Parcel 032 Township \_ Range. Section \_ Location Sketch Activity (Sketch must be drawn by hand after form is printed.) O New Well North O Modification/Repair O Deepen See Attached O Other\_ Destroy Describe procedures and materials under "GEOLOGIC LOG" **Planned Uses** O Water Supply ☐ Domestic ☐ Public West ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection Monitoring O Remediation O Sparging O Test Well O Vapor Extraction Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete. O Other Water Level and Yield of Completed Well Depth to first water \_ (Feet below surface) Depth to Static Water Level (Feet) Date Measured Total Depth of Boring Feet Estimated Yield \* (GPM) Test Type \_ Test Length \_ (Hours) Total Drawdown Total Depth of Completed Well Feet \*May not be representative of a well's long term yield. Casings **Annular Material** Depth from **Borehole** Wall Outside Screen Slot Size Depth from Material Type Surface Diameter Thickness Diameter Туре if Any Surface Fill Description Feet to Feet (Inches) (Inches) (Inches) Feet to Feet **Attachments Certification Statement** I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name YELLOW JACKET DRILLING SERVICES, LLC ☐ Geologic Log ☐ Well Construction Diagram

☐ Soil/Water Chemical Analyses☐ Other MAPS

Attach additional information, if it exists.

DWR 188 REV. 2/2017

☐ Geophysical Log(s)

RANCHO CUCAMONI

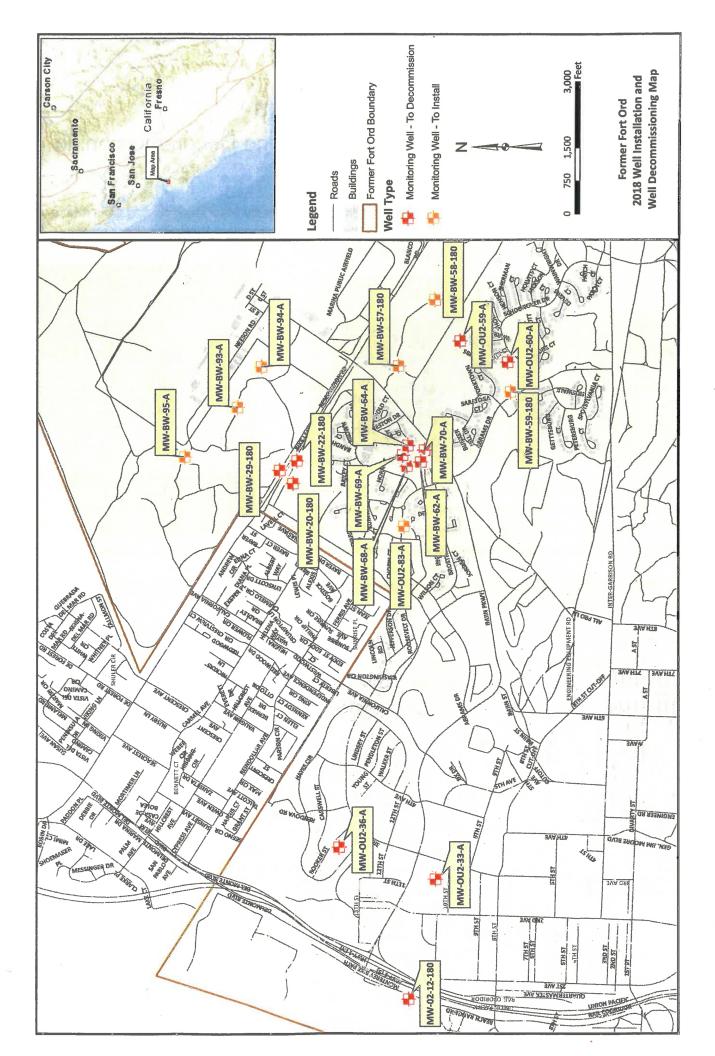
10/8/2018

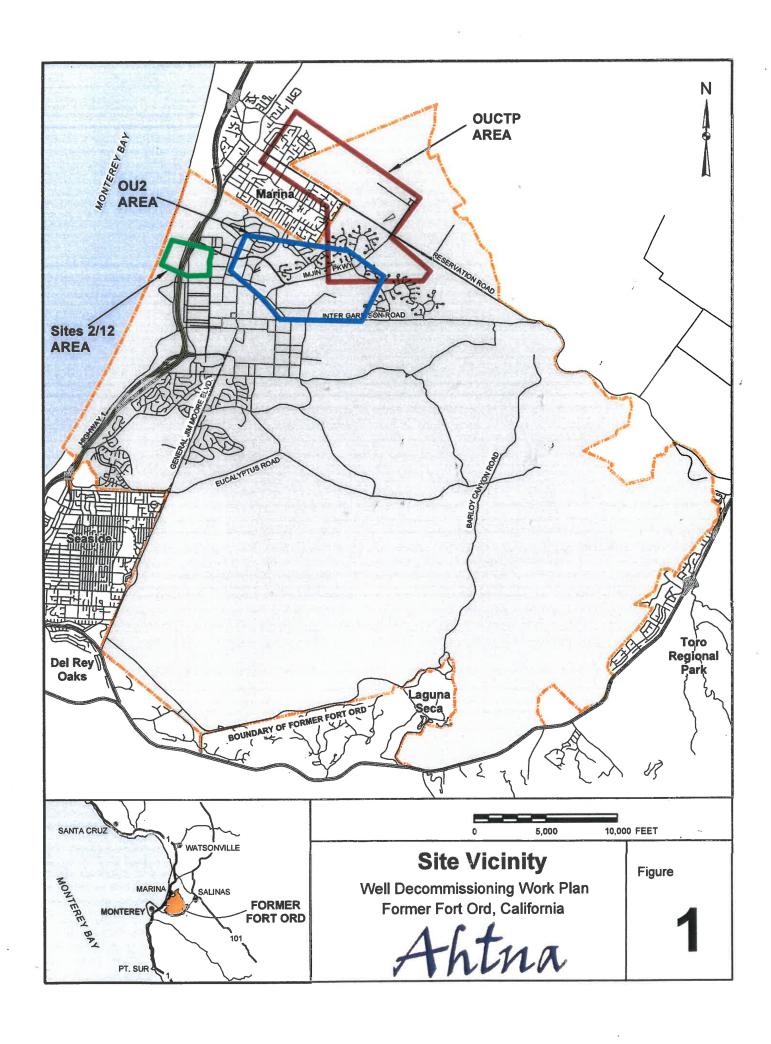
<u>CA</u> <u>91730</u>

1034407

State

Person, Firm or Corporation 9460 LUCAS RANCH RD





\*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** of 3 Refer to Instruction Pamphlet State Well Number/Site Number Owner's Well Number MW-0U2-59-A No. e0370540 W | N Date Work Began 08/21/2018 Date Work Ended <u>8/28/2018</u> Latitude Longitude Local Permit Agency MONTEREY COUNTY HEALTH DEPARTMENT Permit Number <u>HZ-18908</u> APN/TRS/Other Permit Date <u>8/7/18</u> **Geologic Log** Well Owner (confidential pursuant to CA Water Code 13752) O Horizontal OAngle Specify\_ Name US ARMY CORPS OF ENGINEERS Drilling Method **Drilling Fluid** Mailing Address 1325 J. STREET **Depth from Surface** Description City SACRAMENTO State CA 95814 Feet to Feet Describe material, grain size, color, etc **Well Location** PRESSURE ABANDON CEMENT GROUT Address **DRILL OUT TOP 5 FEET** City . County \_ N Longitude \_\_\_\_\_ Min. Latitude Deg. Min. Sec. Dec. Lat. \_ Dec. Long. APN Book 031 \_ Page <u>101</u> Parcel 032 Township , Range Section . Location Sketch Activity (Sketch must be drawn by hand after form is printed.) O New Well North O Modification/Repair O Deepen See Attached O Other\_ Destroy Describe procedures and materials under "GEOLOGIC LOG" **Planned Uses** O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection Monitoring O Remediation O Sparging O Test Well South O Vapor Extraction Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete. O Other Water Level and Yield of Completed Well Depth to first water \_ (Feet below surface) Depth to Static (Feet) Date Measured\_ Water Level **Total Depth of Boring** Estimated Yield \* (GPM) Test Type \_\_ Feet Test Length \_\_\_ (Hours) Total Drawdown Total Depth of Completed Well Feet \*May not be representative of a well's long term yield. Casings **Annular Material** Depth from Borehole Wall Outside Screen Slot Size Depth from Material Surface Thickness Diameter if Any Fill Diameter Description Type Surface Feet to Feet (Inches) Feet to Feet (Inches) (inches) (Inches) **Attachments Certification Statement** I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name YELLOW JACKET DRILLING SERVICES, LLC ☐ Geologic Log ☐ Well Construction Diagram Person, Firm or Corporation 9460 LUCAS RANCH RD ☐ Geophysical Log(s) RANCHO CUCAMON

DWR 188 REV. 2/2017

☑ Other MAPS

Attach additional information, if it exists

☐ Soil/Water Chemical Analyses

C-57 Licensed Water Well Contractor

Signed

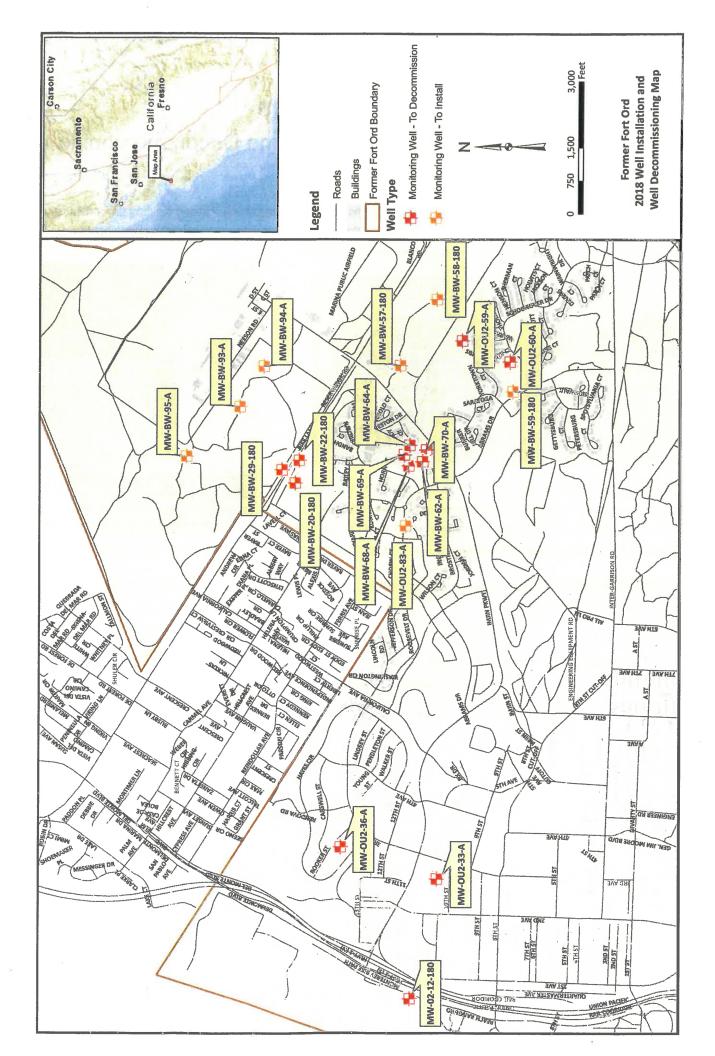
<u>CA</u> 91730

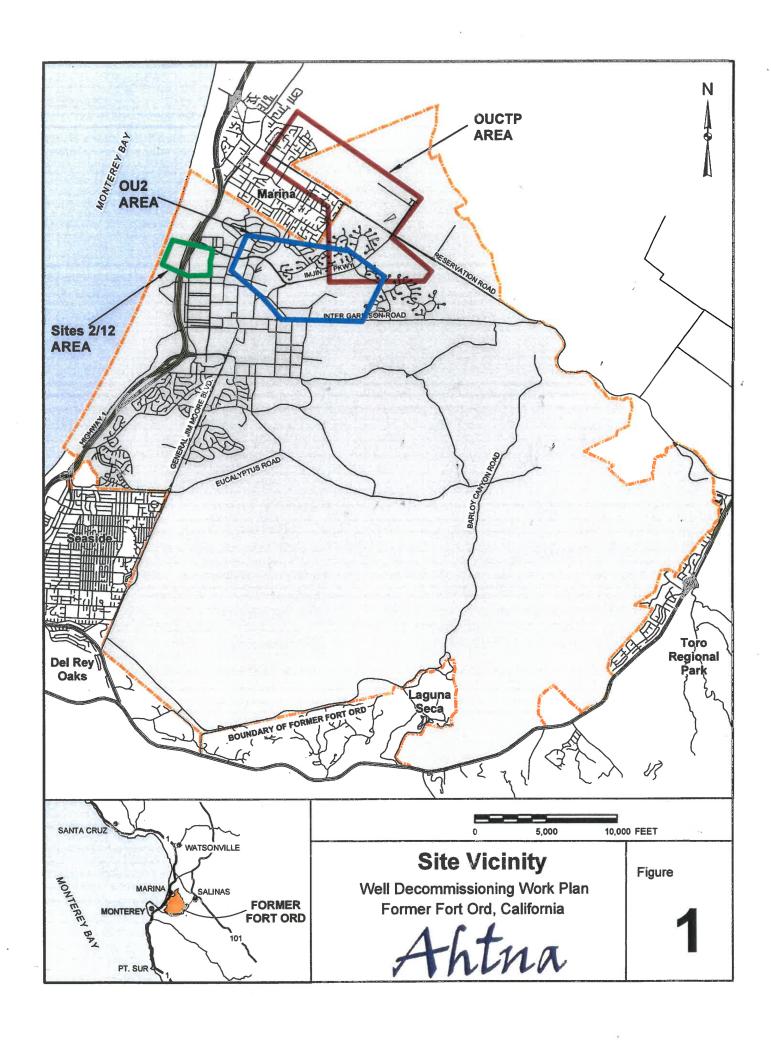
1034407

Date Signed C-57 License Number

State

10/8/2018





\*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** \_ of 3 Refer to Instruction Pamphlet State Well Number/Site Number Owner's Well Number MW-0U2-36-A No. e0370539 | N | | Date Work Began 08/21/2018 Date Work Ended <u>8/28/2018</u> Latitude Longitude Local Permit Agency MONTEREY COUNTY HEALTH DEPARTMENT APN/TRS/Other Permit Number HZ-18907 Permit Date <u>8/17/18</u> **Geologic Log** Well Owner (confidential pursuant to CA Water Code 13752) O Horizontal **O**Angle Specify Name US ARMY CORPS OF ENGINEERS Drilling Method **Drilling Fluid** Mailing Address 1325 J. STREET **Depth from Surface** Description City SACRAMENTO State CA 95814 Feet Describe material, grain size, color, etc Feet **Well Location** PRESSURE ABANDON CEMENT GROUT Address DRILL OUT TOP 5 FEET City \_ \_ County \_ Latitude \_ N Longitude \_ Deg. Min. Sec. Deg. Min. \_ Dec. Lat. \_ Dec. Long. Datum APN Book <u>031</u> \_ Page <u>021</u> Parcel 040 Township .Range . Section . **Location Sketch** Activity (Sketch must be drawn by hand after form is printed.) O New Well North O Modification/Repair O Deepen
O Other\_\_ See Attached Destroy Describe procedures and materials under "GEOLOGIC LOG" **Planned Uses** O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection Monitoring O Remediation O Sparging O Test Well South O Vapor Extraction Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. O Other Please be accurate and complete Water Level and Yield of Completed Well Depth to first water (Feet below surface) Depth to Static Water Level (Feet) Date Measured (GPM) Test Type Total Depth of Boring Estimated Yield \* Feet Test Length (Hours) Total Drawdown (Feet) Total Depth of Completed Well Feet \*May not be representative of a well's long term yield. Casings **Annular Material** Depth from Borehole Wall Outside Screen Slot Size Depth from Material Type Thickness Diameter if Any Surface Diameter Surface Fill Description Type Feet to Feet (Inches) (Inches) (Inches) (Inches) Feet to Feet **Attachments Certification Statement** ☐ Geologic Log I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Attach additional information, if it exists.

DWR 188 REV. 2/2017

□ Well Construction Diagram

☐ Soil/Water Chemical Analyses

☐ Geophysical Log(s)

☑ Other MAPS

RANCHO CUCAMON

10/8/2018

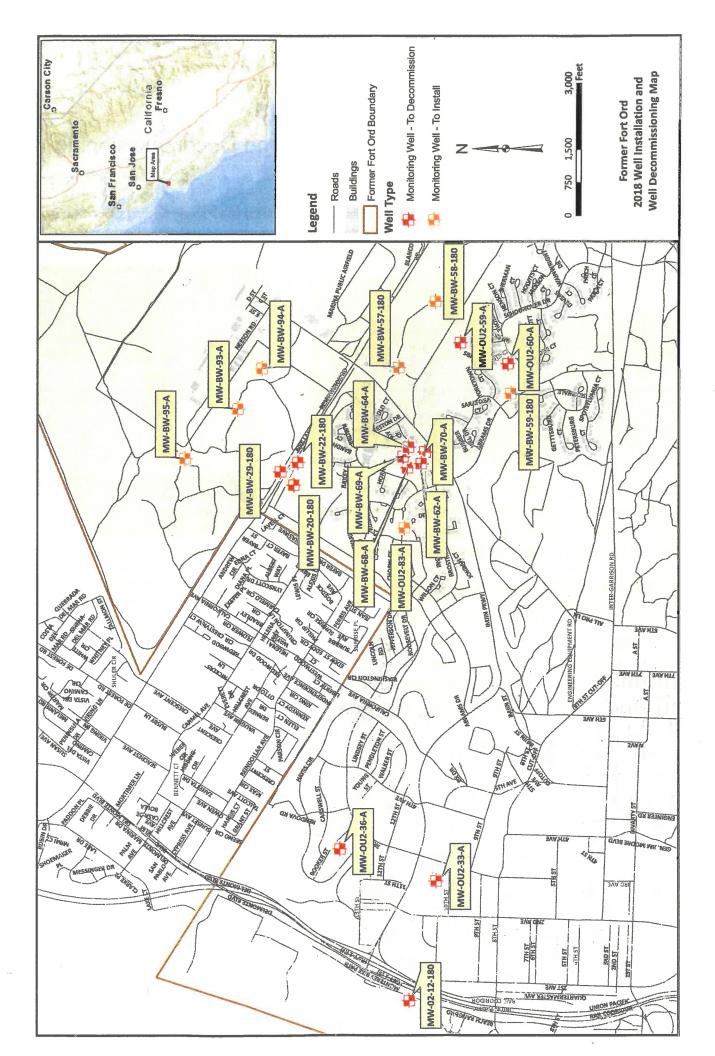
<u>CA</u> 91730

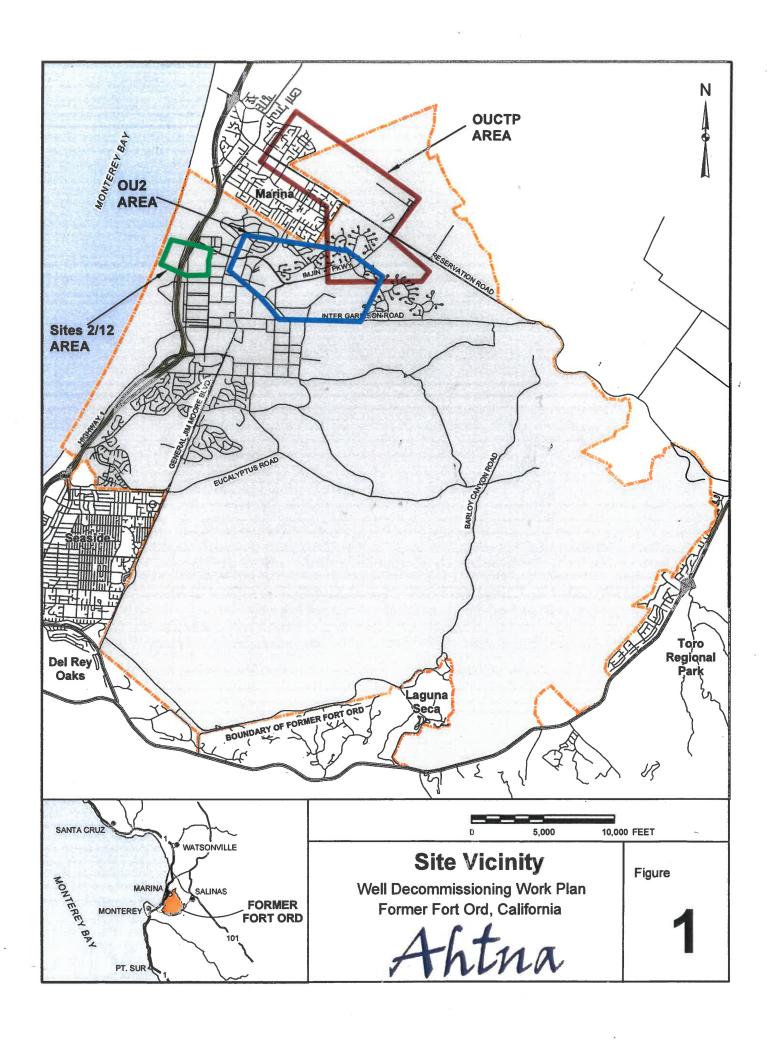
1034407

Name YELLOW JACKET DRILLING SERVICES, LLC

C-57 Licensed Water Well Contractor

Person, Firm or Corporation 9460 LUCAS RANCH RD





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☐ Well Construction Diagram

☐ Soil/Water Chemical Analyses

☐ Geophysical Log(s)

Attach additional information, if it exists.

☑ Other MAPS

C-57 Licensed Water Well Contractor

RANCHO CUCAMON

10/8/2018

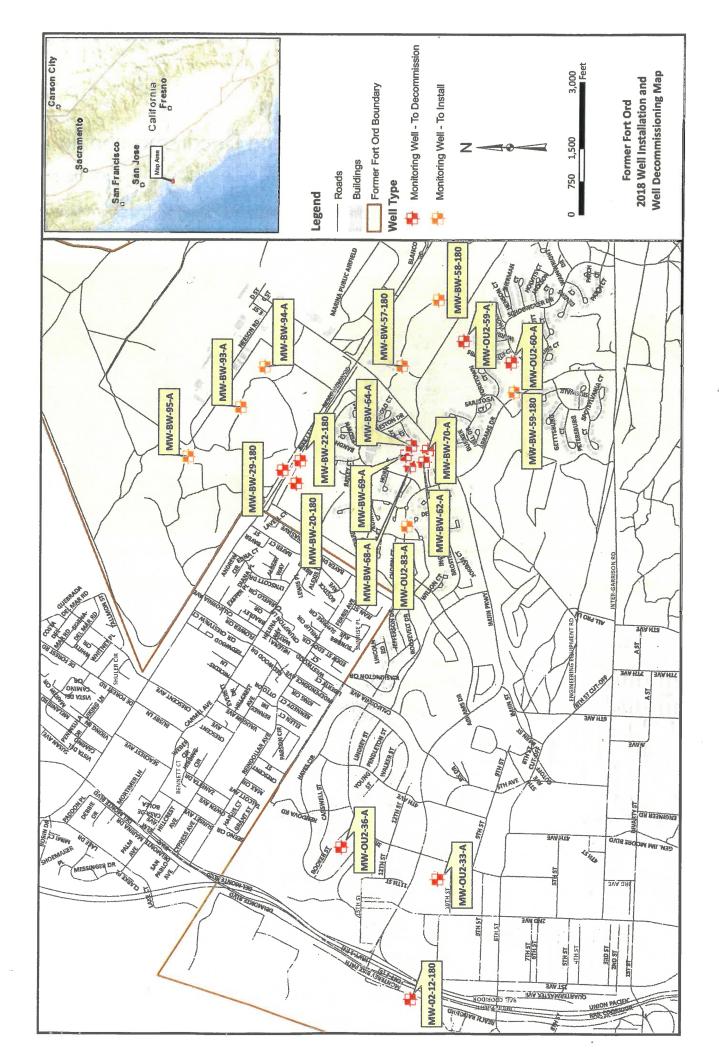
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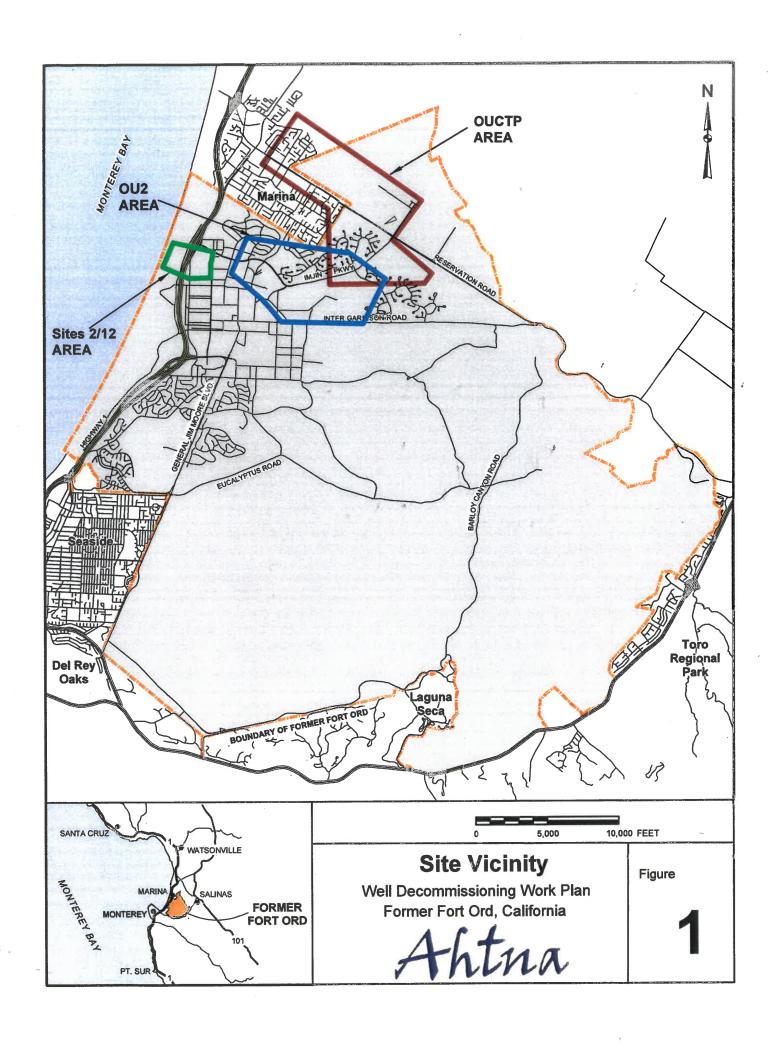
1034407

Date Signed C-57 License Number

State

Person, Firm or Corporation 9460 LUCAS RANCH RD





\*The free Adobe Reader may be used to view and complete this form. However, software must be purchased to complete, save, and reuse a saved form. File Original with DWR State of California DWR Use Only - Do Not Fill In **Well Completion Report** \_ of 3 State Well Number/Site Number Refer to Instruction Pamphlet Owner's Well Number MW-BW-68-A No. e0370563 N Date Work Began 08/21/2018 Date Work Ended 8/28/2018 Latitude Longitude Local Permit Agency MONTEREY COUNTY HEALTH DEPARTMENT Permit Number HZ-18912 Permit Date 8/7/18 Well Owner (confidential pursuant to CA Water Code 13752) Geologic Log O Horizontal **O**Angle Specify Name US ARMY CORPS OF ENGINEERS **Drilling Method Drilling Fluid** Mailing Address 1325 J. STREET **Depth from Surface** Description City SACRAMENTO State CA Zip 95814 Feet to Feet Describe material, grain size, color, etc **Well Location** PRESSURE ABANDON CEMENT GROUT Address DRILL OUT TOP 5 FEET City \_ \_ County \_ N Longitude \_\_\_\_\_ Min. Latitude \_ Min. Sec. Deg. Dec. Long. Datum \_ Dec. Lat. \_ APN Book 031 Page 201 Parcel <u>027</u> Township Range \_ Section . **Location Sketch** Activity (Sketch must be drawn by hand after form is printed.) O New Well North O Modification/Repair O Deepen O Other\_ Destroy Describe procedures and materials under "GEOLOGIC LOG" **Planned Uses** O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial O Cathodic Protection O Dewatering O Heat Exchange O Injection Monitoring O Remediation O Sparging O Test Well O Vapor Extraction Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. O Other Please be accurate and complete Water Level and Yield of Completed Well Depth to first water (Feet below surface) Depth to Static Water Level (Feet) Date Measured Total Depth of Boring Estimated Yield \* Feet (GPM) Test Type Test Length (Hours) Total Drawdown Total Depth of Completed Well Feet \*May not be representative of a well's long term yield. **Casings Annular Material** Depth from Borehole Wall Outside Screen **Slot Size** Depth from Material Type Surface Diameter Thickness Diameter Fill Type if Any Surface Description Feet to Feet (Inches) (Inches) (Inches) (Inches) Feet to Feet **Attachments Certification Statement** I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief Name YELLOW JACKET DRILLING SERVICES, LLC Geologic Log

☐ Well Construction Diagram

☐ Soil/Water Chemical Analyses

☐ Geophysical Log(s)

☑ Other MAPS

Attach additional information, if it exists.

C-57 Licensed Water Well Contractor

RANCHO CUCAMON

10/8/2018

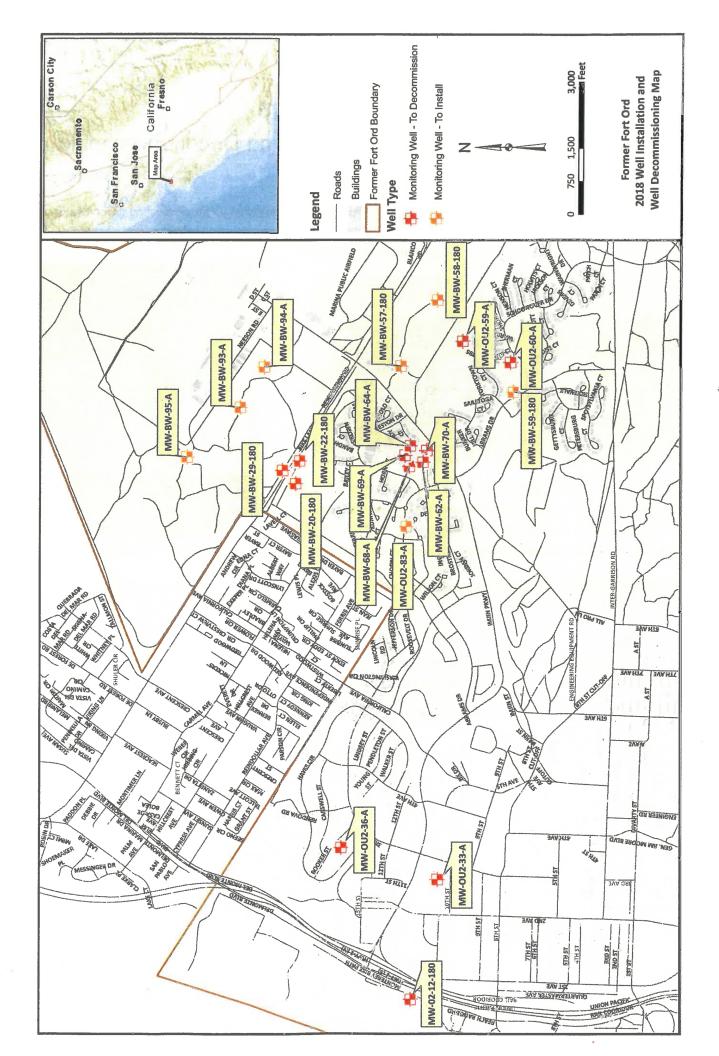
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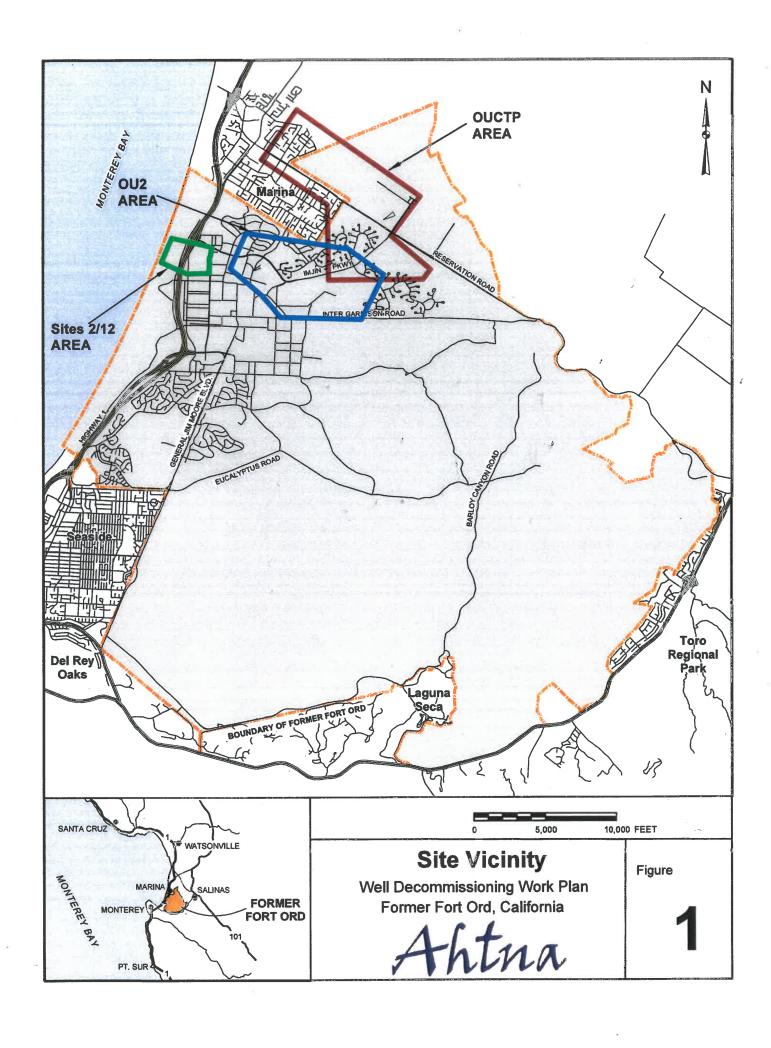
<u>CA</u> <u>91730</u>

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Person, Firm or Corporation 9460 LUCAS RANCH RD





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☐ Well Construction Diagram

☐ Soil/Water Chemical Analyses

☐ Geophysical Log(s)

☑ Other MAPS

RANCHO CUCAMON

10/8/2018

<u>CA</u> <u>91730</u>

1034407

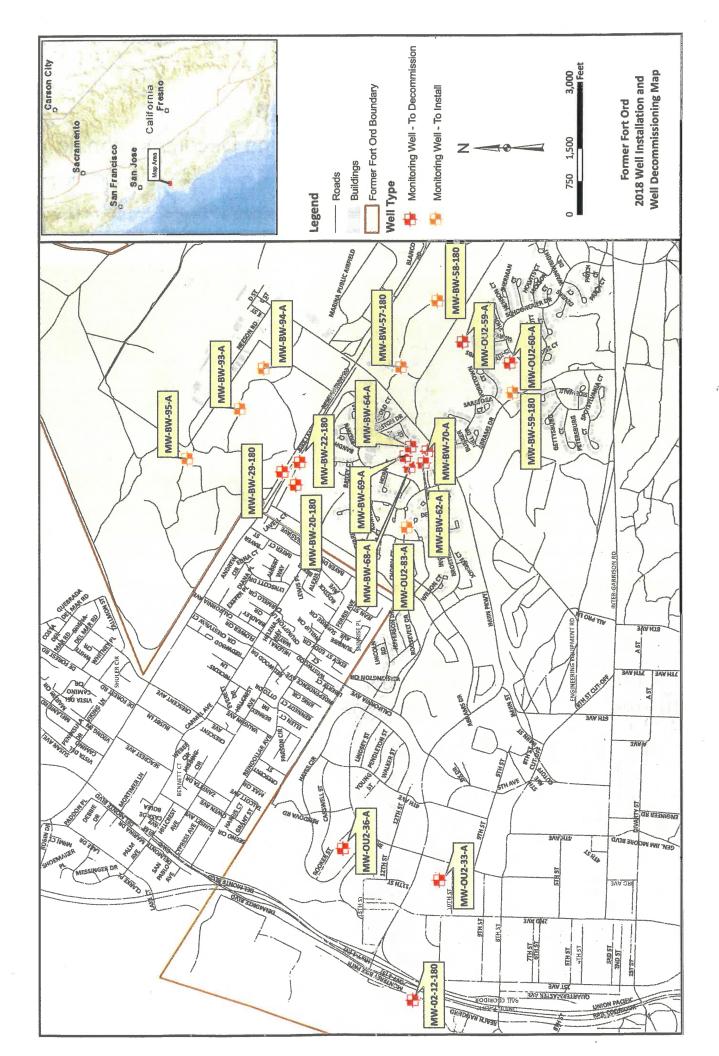
Date Signed C-57 License Number

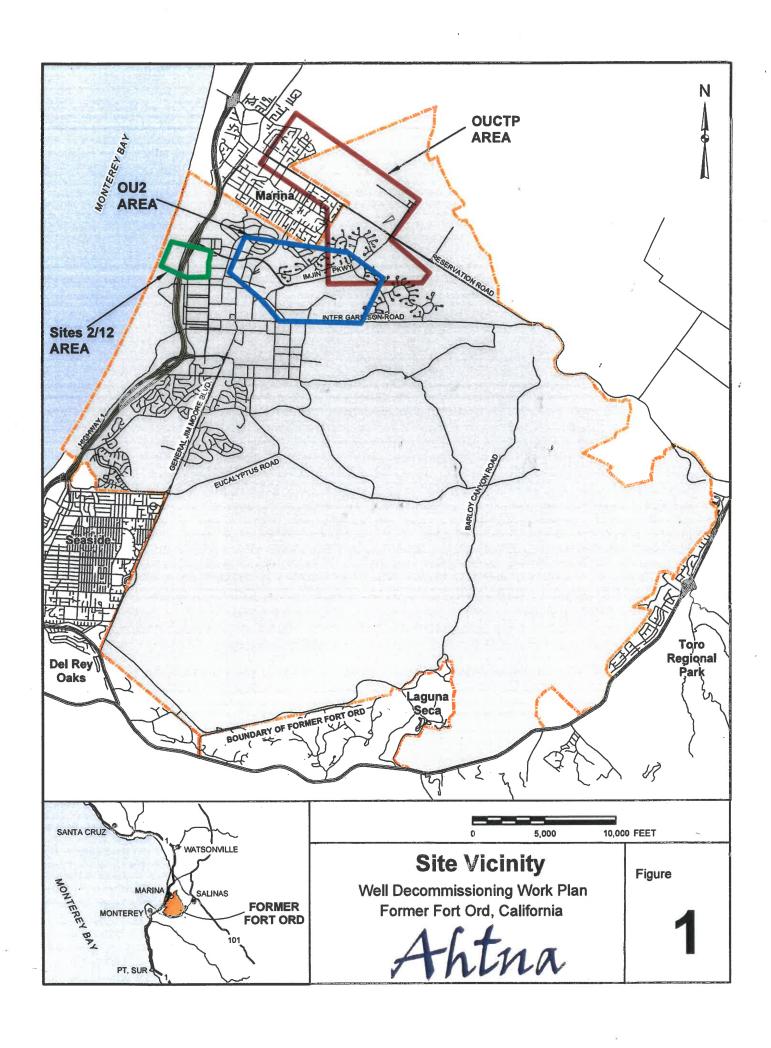
State

Person, Firm or Corporation 9460 LUCAS RANCH RD

Address

C-57 Licensed Water Well Contractor





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☐ Geophysical Log(s)

☑ Other MAPS

Attach additional information, if it exists.

☐ Soil/Water Chemical Analyses

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RANCHO CUCAMON

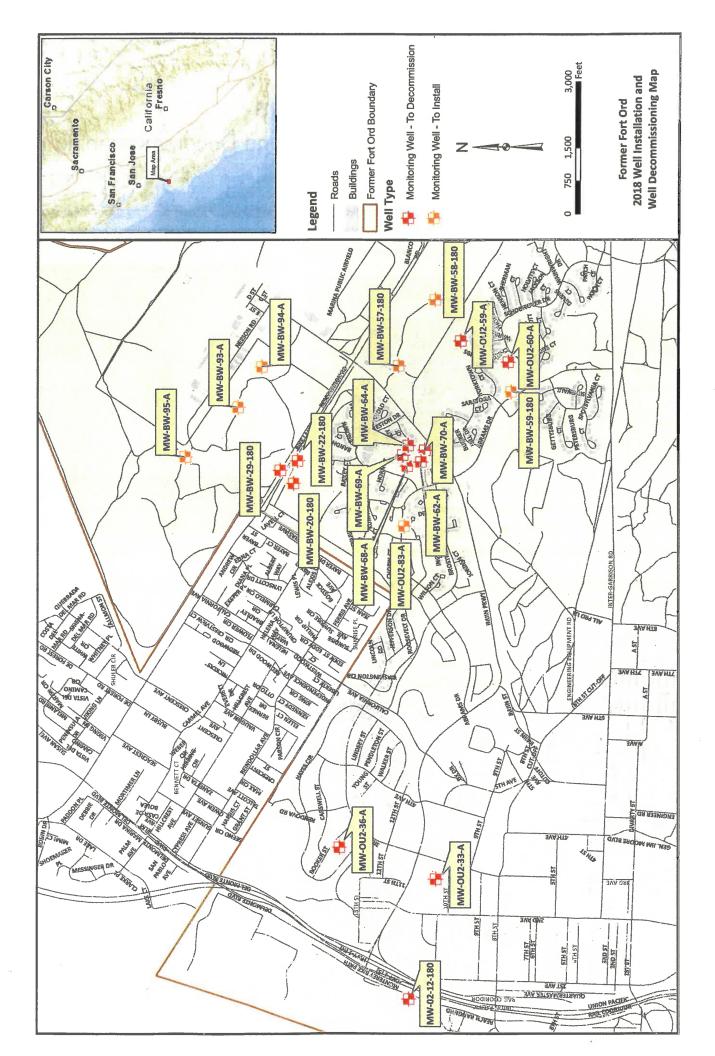
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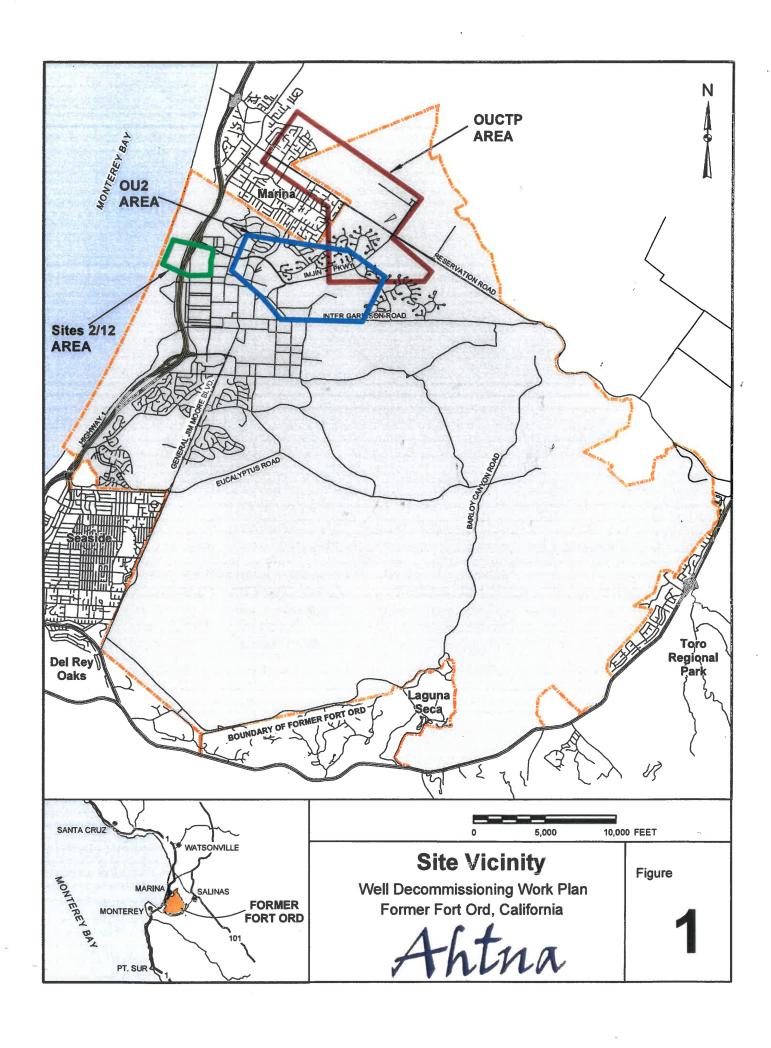
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DWR 188 REV. 2/2017

☐ Well Construction Diagram

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☑ Other MAPS

Attach additional information, if it exists.

C-57 Licensed Water Well Contractor

RANCHO CUCAMON

10/8/2018

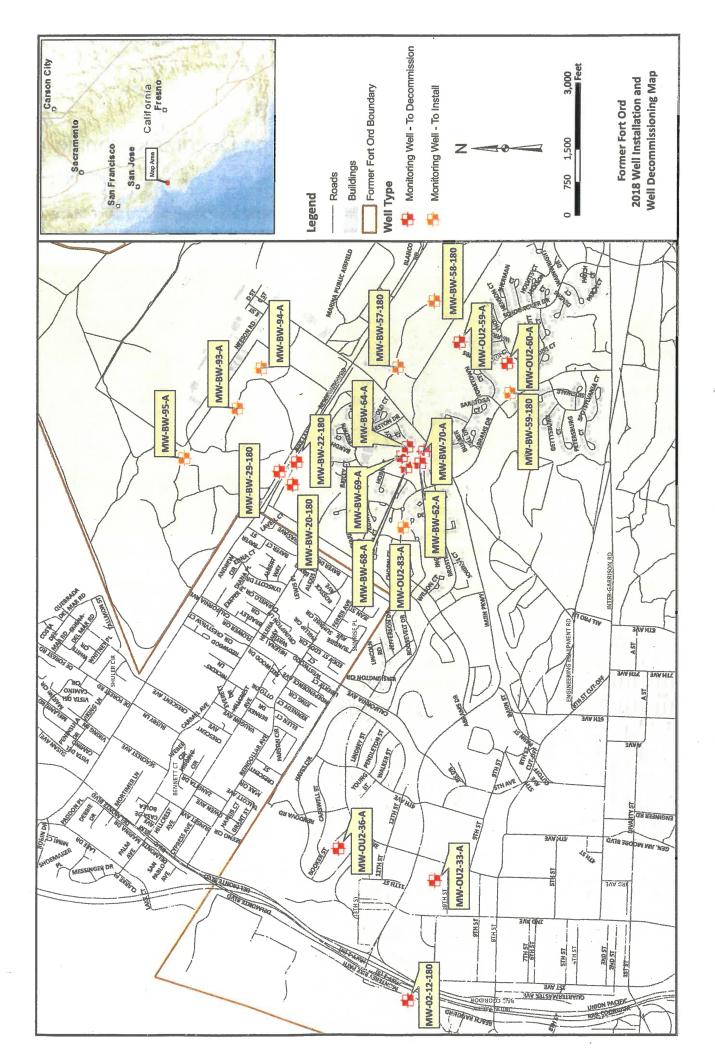
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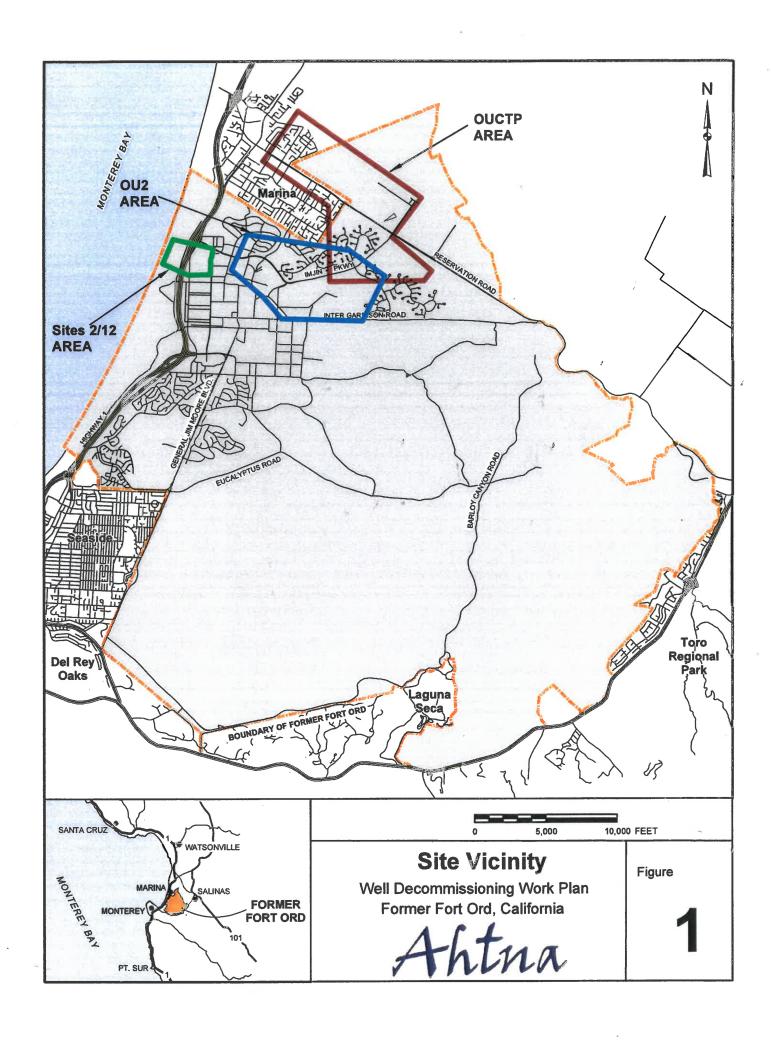
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9460 LUCAS RANCH RD ☐ Geophysical Log(s)

C-57 Licensed Water Well Contractor

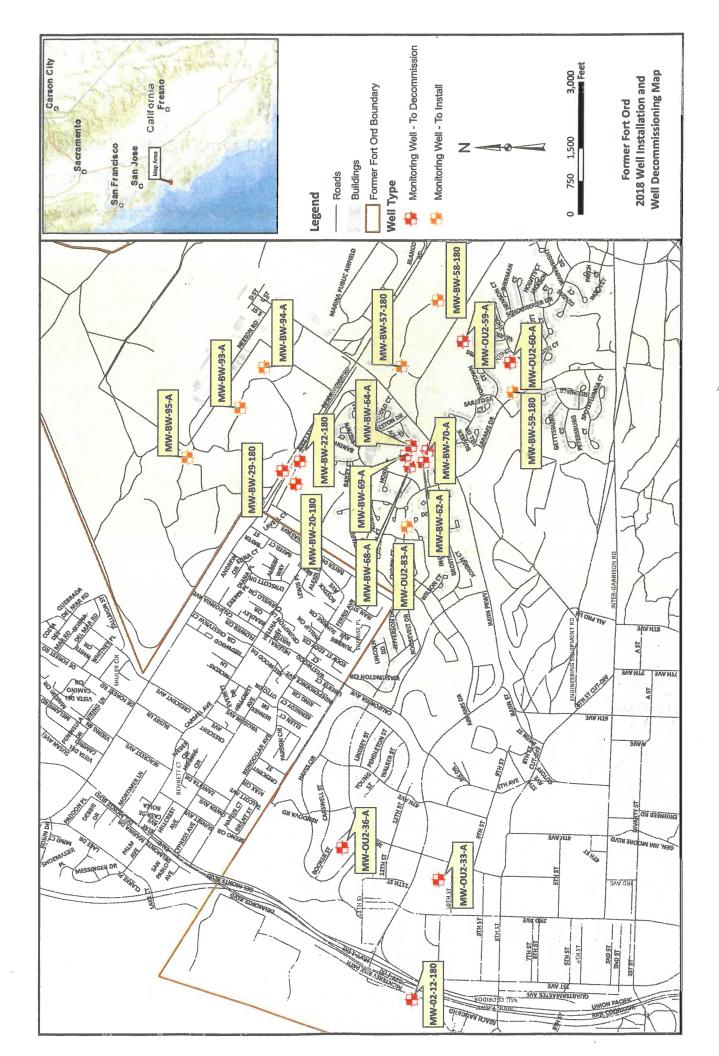
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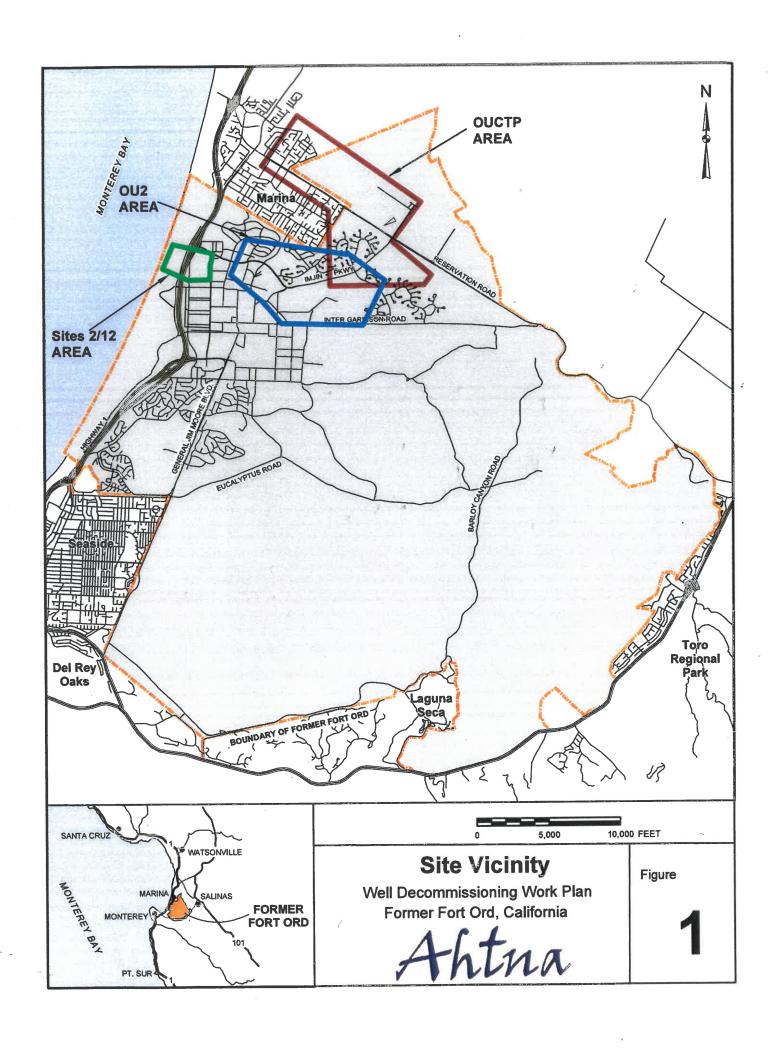
☐ Soil/Water Chemical Analyses ☑ Other MAPS

Attach additional information, if it exists

RANCHO CUCAMON <u>CA</u> <u>91730</u> State 10/8/2018 1034407

C-57 License Number Date Signed





Former Fort Ord, California

## **APPENDIX E**

**Site Habitat Checklists** 

## SITE HABITAT CHECKLIST

The following are requirements to minimize biological disturbances to protected species and habitat. Please notify the Ahtna Biologist (Denise Duffy and Associates) at 831-917-3242 *before* proceeding, if work tasks or work boundaries change, additional vegetation removal is necessary, vegetation cutting methods change, or any other conditions change.

SITE: Un		Univer	niversity of California – Fort Ord Natural			Date:	08/14/2018
Reserve							
Work to be Well Installation and Decommission			ning at Operable	Unit 2 and Ope	erable Unit Carbon		
conducted: Tetrachloride			nloride Plume				
1. LAND USE:			Habitat Reserve		Development	Area	Other (specify):
			FONR North/South				
2.	2. LAND OWNER:		Army:	Location:		·	
			BLM:	Location:			
			Other:	Location:	University of California		
3. ENDANGERED SPECIES/Yes: _X			ES/Yes: X	No:	Flagged/M	arked: X	
HMP Listed Spe		Cresies	CA Tiger Salamander, Black Legless Lizard, Coast Horned Lizard, Monterey Spineflower,				
		species	and Monterey	and Monterey Gilia			
Location:			MW-OU2-59-A, MW-BW-29-180, MW-BW-93-A, MW-BW-94-A, MW-BW-95-A				
<b>Grid Numbers:</b>			:		·	·	·

## **Restrictions:**

- Restrict all vehicle access and staging to designated routes and staging areas.
- Stay on roads.
- Report all black legless lizard or California Tiger Salamander encounters to Ahtna field supervisor and biologist immediately. Do not touch Salamander unless it will otherwise be harmed.
- Coordinate with biologist first if additional areas are needed for access or staging of equipment or vehicles.
- Contact number for Ahtna Biologist (Denise Duffy and Associates) is 831-917-3242.
- Contact number for the BRAC Office Biologist Bart Kowalski is 831-595-5569.
- Pressure wash/brush off tires and tracks of equipment and vehicles that will encounter soils at the FONR locations before entry into area to prevent spread of non-native species.
- Walk in front of vehicles for coast horned lizard avoidance when accessing MW-BW-93-A, MW-BW-94-A, and MW-BW-95-A on inner roads.
- Contact Ahtna Biologist Matt Johnson with Denise Duffy and Associates before moving to a new location to assist in setting up equipment in approved locations.

4. VERNAL POOLS/PONDS PRESENT: Yes: No			Flagged/Marked:	
Location:	Access to MW-OU2-59-A has small seasonal	required vehicle route.		
<b>Grid Numbers:</b>				
Work Can Proceed in Pools/Ponds: Yes: X No:				
Restrictions:				

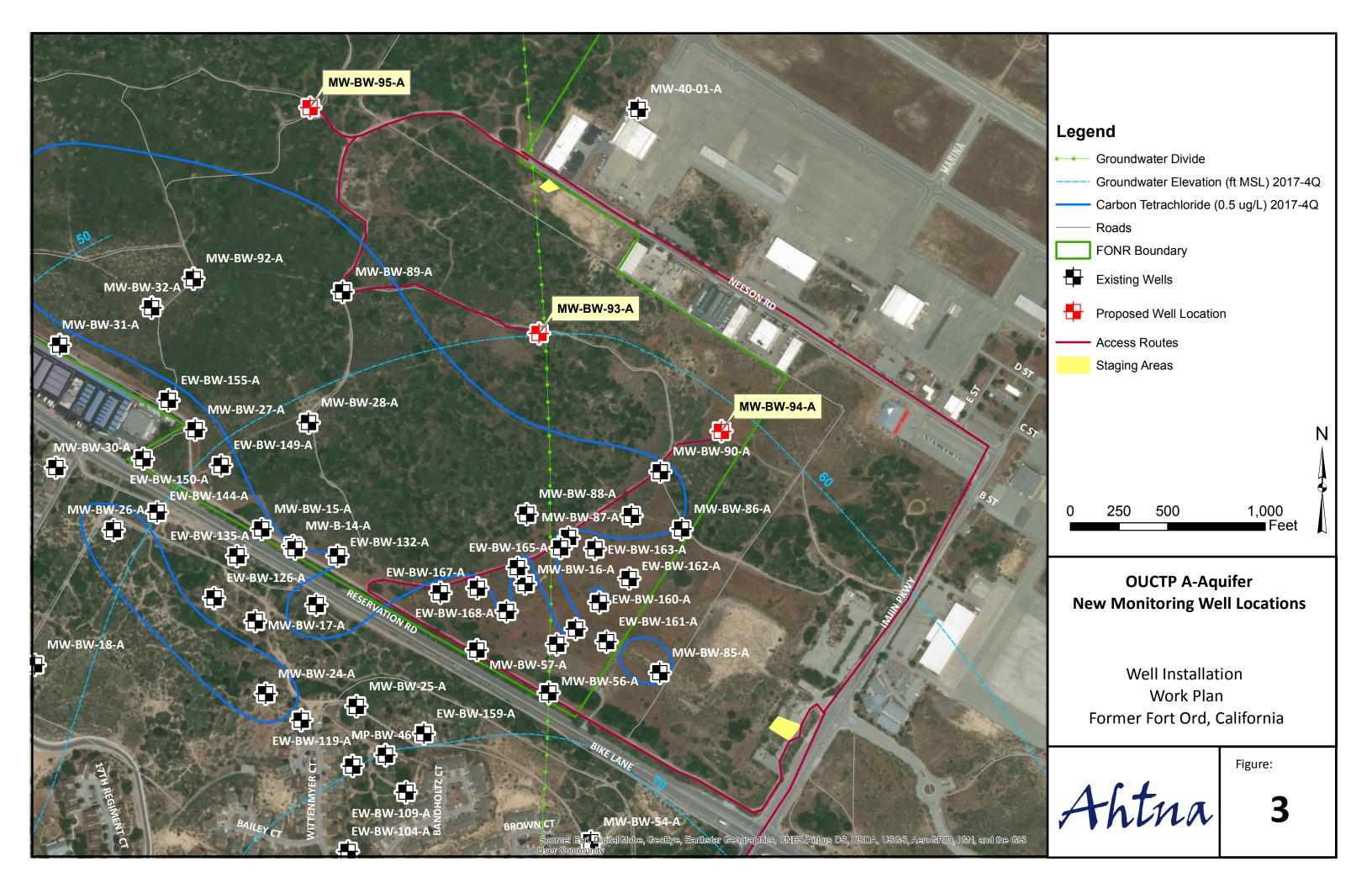
Ahtna Environmental, Inc. Page 1 of 2

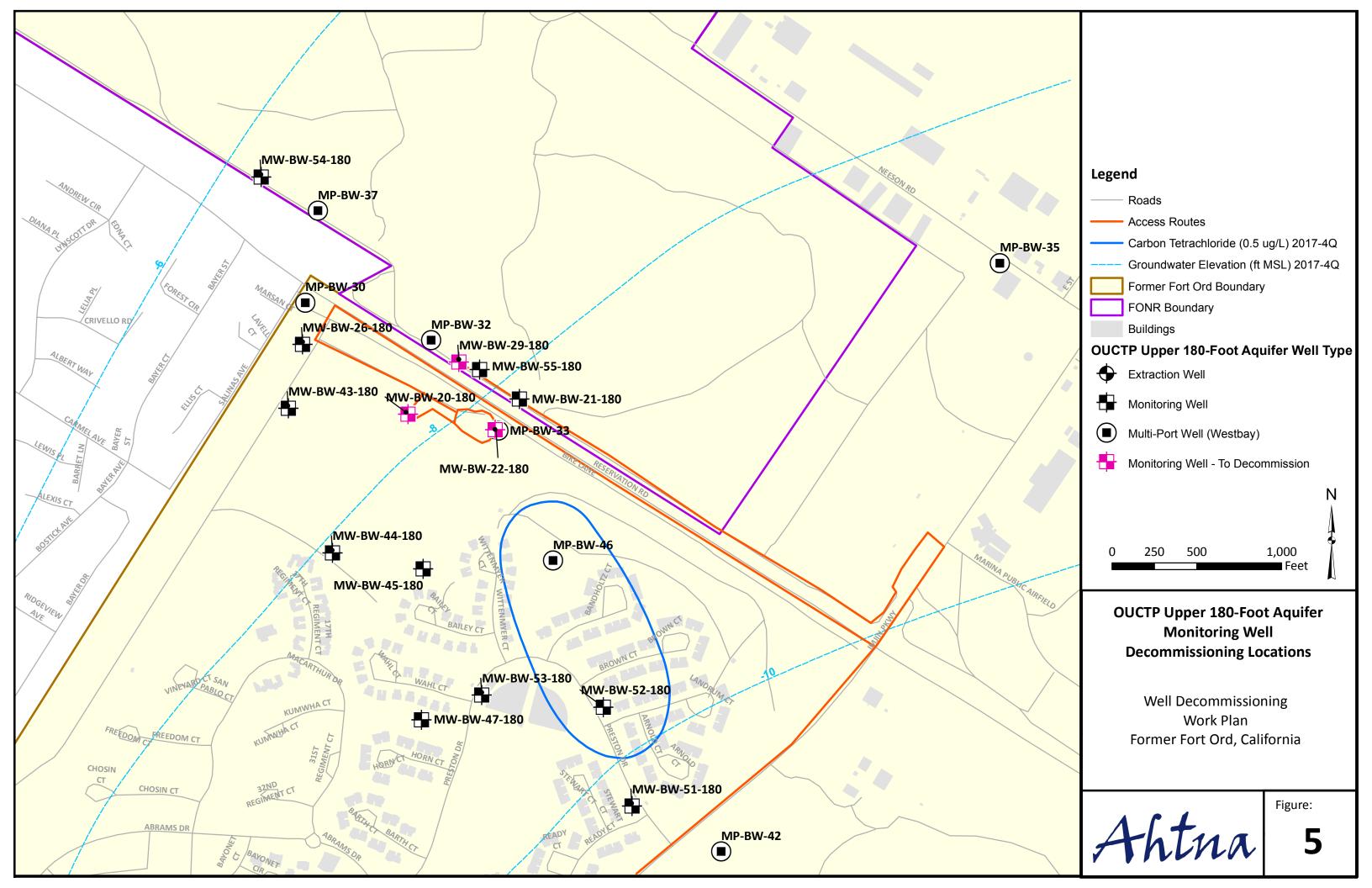
Habitat Checklist August 2018

VEGETATION REMOVAL				
No Removal Needed:	Location: MW-BW-29-180			
Manual Removal Needed:	Location: MW-OU2-59-A, MW-BW-93-A, MW-BW-94-A, and MW-BW-95-A			
Mechanical Removal Needed:	Location:			
<b>Restrictions:</b> Areas of removal already approved by UC reserve manager Joe Miller on August 1 and conducted prior to drilling.				
5. Surface Removal Needed:	<b>Location:</b> well materials of MW-BW-29-180 and MW-OU2-59-A.			
Restrictions: Ok to removing well mater	ials above surface and 5 feet below surface (MW-OU2-59-A) or one foot			
below surface (MW-BW-29-180). Repla	ace excavation with existing topsoil at MW-BW-29-180.			
<b>6. EROSION CONCERNS/SITE RESTORATION:</b> If water is produced during drilling and grouting activities it is ok to let penetrate ground surface. Wetted areas will be managed to reduce erosion of topsoil as needed.				
	A and MW-BW-95-A through Neeson Rd gate. Access to MW-BW-94-A through			
	to MW-BW-58-180 through Don Chapin/Assured Aggregates facility and do not			
move past tree line into FONR. Stay on road and approved paths. Walk in front of vehicles on inner roads going to MW-BW-93-A, MW-BW-94-A, and MW-BW-95-A for coast horned lizard avoidance.				
8. ADDITIONAL SITE CONCERNS:				

This checklist has been read, approved, and signed by the following:

Ahtna Environmental, Inc. Page 2 of 2







## SITE HABITAT CHECKLIST

The following are requirements to minimize biological disturbances to protected species and habitat. Please notify the Ahtna Biologist (Denise Duffy and Associates) at 831-917-3242 *before* proceeding, if work tasks or work boundaries change, additional vegetation removal is necessary, vegetation cutting methods change, or any other conditions change.

SITE: Fort Ord Dunes State Park		Park		Date:	08/14/2018		
Work to be conducted:  Well Decommissioning at Sites 2 and 12							
1.	LAND USE:		Habitat Re	serve	Development Area		Other (specify):
			Fort Ord Dunes State Park				1 1 1
2.	LAND OWN	ER:	Army:	Army: Location:		'	
			BLM:	Location:			
			Other:	Location:	tion: California Parks and Recreation		on
3.	ENDANGERE	D SPEC	IES/Yes: X	No:	Flagged/M	arked: X	
	HMP Listed Species: Black Legless Lizard, Smith's blue butterfly, Monterey spineflower, and buckwheat				ineflower, and buckwheat		
	Location: MW-02-12-180						
	Grid N	umbers	:				
	Restrictions:						
	• Restrict a	ıll vehicl	e access and sta	ging to desig	gnated routes and	d staging area	is.
	Stay on roads.						
	Report all black legless lizard encounters to Ahtna field supervisor and biologist immediately.						
	• Coordinate with biologist first if additional areas are needed for access or staging of equipment or vehicles.						
	<ul> <li>Contact number for Ahtna Biologist (Denise Duffy and Associates) is 831-917-3242.</li> </ul>						
	Contact number for the BRAC Office Biologist Bart Kowalski is 831-595-5569.						
	Contact Ahtna Biologist Matt Johnson with Denise Duffy and Associates before moving to the location to						
	assist in setting up equipment in approved locations.						
4.	4. VERNAL POOLS/PONDS PRESENT: Yes: No: X Flagged/Marked:						
	Location:						
	Grid Numbers:						
Work Can Proceed in Pools/Ponds: Yes: X No:							
R	Restrictions:						

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5. VEGETATION REMOVAL				
No Removal Needed:	<b>Location:</b> MW-02-12-180			
Manual Removal Needed:	Location:			
Mechanical Removal Needed:	Location			
Mechanical Removal Needed:	Location:			
Restrictions:				
C. Confees Demond Needed	T			
6. Surface Removal Needed:	<b>Location:</b> well material from MW-02-12-180			
Restrictions: Ok to remove well materia	Ils above surface and one foot below surface. Replace excavation with existing			
topsoil at MW-02-12-180.				
	ATION: If water is produced during drilling and grouting activities it is ok to let			
penetrate ground surface. Wetted area	s will be managed to reduce erosion of topsoil as needed.			
8. SITE ACCESS: Access MW-02-12-180 from Beach Range Rd.				
9. ADDITIONAL SITE CONCERNS:				
This checklist has been read, approved, and signed by the following:				
100 U //				

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ិ Date: \_\_\_

Date: <u>08/15/2018</u>

Date: <u>08/16/2018</u>

Ahtna Biologist: \_

Ahtna Field Supervisor: \_

KOWALSKI.BARTHOLOMEW.L. Optably signed by NOWA.SREAM OR COLOR COLO

