

Memorandum

August 13, 2019

- To: Gary Baumgarten, U.S. Environmental Protection Agency
- From: John Laplante, David Keith, Wendell Mears, and Josef Hoffmann, Anchor QEA, LLC
- cc: Judy Armour, McGinnes Industrial Maintenance Corporation Philip Slowiak and Brent Sasser, International Paper Company

Re: Northwest Slope Enhancement Completion Report San Jacinto River Waste Pits Time Critical Removal Action

Introduction

This document provides a summary of the northwest slope enhancement work completed on the armored cap constructed as part of the Time Critical Removal Action (TCRA) for the San Jacinto River Waste Pits Superfund (SJRWP) site. The TCRA was implemented by International Paper Company and McGinnes Industrial Maintenance Corporation (collectively, the Respondents) under an Administrative Settlement Agreement and Order on Consent (AOC) with the U.S. Environmental Protection Agency (USEPA) – Docket No. 06-12-10, effective May 17, 2010 (USEPA 2010).

The slope enhancement work was completed pursuant to the USEPA-approved construction execution plan (CEP, GHD Services Inc. [GHD] 2019) and entailed the installation of articulated concrete block mat (ACBM) on the northwestern submerged slope of the TCRA armored cap. The northwest slope enhancement area is shown in Figure 1.

The ACBM is a new element of the TCRA armored cap. As such, the Respondents have separately submitted an amendment to the TCRA *Operations, Monitoring and Maintenance Plan* (OMMP) to describe revised procedures for future cap inspection events.

Construction Activities

GHD Services Inc. (GHD) was the contractor for the slope enhancement work and was supported by subcontractors Community Construction, Inc. (CCI), Shallow Water Equipment (SWE), and Underwater Technology Services, Inc. (UTS). Construction activities at the SJRWP site began on May 20, 2019 and concluded on June 21, 2019. Anchor QEA was present on site for the Respondents for the duration of construction. Field reports of daily activities were provided to USEPA by Anchor QEA during construction and are provided as Attachment 1. The following sections provide a summary of the construction activities and the information contained in the field reports.

Mobilization and Site Preparation

Mobilization of equipment and personnel to the SJRWP site occurred from May 20, 2019 to May 28, 2019. The components of the mobilization included the following:

- Mobilized GHD personnel, utility trailer, equipment trailer, roll-off boxes, front end loader, skid steer, push barge, and work boat.
- Mobilized CCI personnel, utility trailer, equipment trailer, grout pump, grout hoses, forklift, and skid steer.
- Mobilized SWE personnel, marsh buggy, long-reach excavator, spud barge, and crew boat.
- Mobilized UTS dive crew, equipment, and dive shack.

Site preparation activities for the slope enhancement work occurred from May 21, 2019 to May 24, 2019 and consisted of the following components:

- Maintenance of the gravel Laydown and Stockpile Area located near the access gate within the Texas Department of Transportation's right-of-way and the gravel access road located on the western side of the central berm.
- Preparation of a grout pumping pad in the northeast region of the western cell, consisting of riprap, timber cross ties, and timber board mats.

Placement of Geotextile Layer on Articulated Concrete Block Mat Panels

ACBM fabric form panels for the northwest slope enhancement were manufactured by Construction Techniques, Inc. (CTI) and delivered to the SJRWP site on May 20, 2019, along with non-woven geotextile fabric. Each panel was manufactured to unique dimensions to fit the geometry of its installation location within the slope enhancement area, based on pre-construction survey data. A total of 27 ACBM panels were pre-fabricated for the slope enhancement area, as shown in the shop drawings provided in Appendix A of the CEP (GHD 2019). As noted in the shop drawings, the panels were manufactured for an average cast-in-place (CIP) thickness of 6 inches and contained reinforcing cables in both the longitudinal and lateral directions.

After receiving the materials and performing the requisite site maintenance activities, the contractor utilized the southwest corner of the Laydown and Stockpile Area for preparation of the ACBM panels and geotextile fabric. These preparation activities occurred from May 22, 2019 to May 30, 2019 and consisted of the following components:

- Cutting the non-woven geotextile fabric to the appropriate dimensions and sewing it to the underside of each ACBM panel.
- Sewing sandbags to the ACBM panels to serve as weights for sinking and temporarily anchoring the fabric to the water bottom prior to grout placement.
- Rolling each ACBM panel, geotextile fabric, and sandbag assembly around a metal spreader bar to facilitate transport and deployment at the slope enhancement installation area.

Installation of Articulated Concrete Block Mat Cap Protection System

ACBM installation at the northwest slope enhancement area began on May 31, 2019 and concluded on June 18, 2019. The ACBM installation process consisted of deploying the prepared ACBM panel, geotextile fabric, and sandbag assemblies into position at the installation location and pumping the ACBM panels with concrete grout. For fabrication and installation purposes, the 27 pre-fabricated ACBM panels were divided into four numbered series as follows, corresponding to four differently aligned regions of the slope enhancement area: SJR-101 (1 panel), SJR-201 to SJR-210 (10 panels), SJR-301 to SJR-305 (5 panels), and SJR-401 to SJR-411 (11 panels).

To achieve a continuous ACBM mat throughout the slope enhancement area, two types of joints were utilized between adjacent ACBM panels. Adjacent panels within each of the four numbered series above were joined together with pre-fabricated zippered connections prior to grouting. At the transitions between the four numbered series, where the alignments of the panels changed direction, overlap joints were utilized in lieu of zippered connections, as depicted in the shop drawings. The sequence of installation for the four ACBM panel series occurred as follows:

- 1. Panels SJR-201 to SJR-207
- 2. Panel SJR-101
- 3. Panels SJR-208 to SJR-210
- 4. Panels SJR-301 to SJR-305
- 5. Panels SJR-401 to SJR-411

In tandem with the installation of panels SJR-409, SJR-410, and SJR-411, two additional panels were delivered to the site and field fit for installation at the interface of panels SJR-209, SJR-210, and SJR-301. The two additional panels measured approximately 80 feet by 25 feet (CIP dimensions).

Prior to the start of the ACBM installation, stakeout of installation boundary points on the landside of the slope enhancement area was completed from May 22, 2019 to May 23, 2019. Subsequent supplemental stakes for individual panels were placed as needed throughout the installation process. The installation process for each ACBM panel typically consisted of the following steps:

- ACBM Panel Deployment
 - The roll of assembled ACBM panel, geotextile fabric, and anchoring sandbags was transported to the slope enhancement area either by forklift or push barge and placed in the water at its approximate installation location by marsh buggy.
 - Once placed in the water, the assembly was unrolled by a barge-mounted excavator, via ropes attached to the excavator's bucket.
 - Once unrolled, the dive crew would perform underwater zippering of the ACBM panel, if applicable, and tether temporary floats to its edges for use in marking the panel's position above the waterline. The panel position was then evaluated based on one or both of the following:

- The locations of the panel edges relative to the staked-out termination points on the landside of the slope enhancement area
- The locations of the temporary floats were surveyed relative to the termination points.
- Repositioning of the panel assembly was then performed as needed. Once in position, the panel assembly was tied off to supersacks of sandbags temporarily placed in the water as anchor points, in preparation for grouting.
- ACBM Panel Grouting
 - Concrete grout for injection into the ACBM panel was delivered to the site in 9-cubicyard truckloads. The concrete grout was offloaded from the delivery trucks into a remotely operated grout pump and conveyed through flexible hoses to the ACBM panel.
 - Prior to the start of pumping, the discharge nozzle of the grout hose was inserted into the fabric form panel. During pumping, the filling of above- and below-water portions of the ACBM panel were monitored, until the grouting was completed. Occasionally, the grout hose would be relocated to a different insertion point in order to facilitate more efficient filling.
 - After the grouting of each panel was completed, the edges of the grouted panel were surveyed.

Throughout the ACBM installation process, a sorbent boom was deployed around the work area each day. Beginning on June 13, 2019, at the request of USEPA, a silt curtain was also deployed around the work area in addition to the sorbent boom.

After completion of the ACBM installation process, an 18-inch-thick, 10-foot-wide section of riprap was installed along the landside termination edge of the ACBM mat to serve as scour protection, and an additional anchoring and armoring measure for the edge of the mat. Riprap for this purpose was delivered and stockpiled at the site from June 14, 2019 to June 17, 2019 and installed by marsh buggy on June 15, 2019 and June 19, 2019.

After completion of the ACBM and riprap installations, final hydrographic and topographic surveying of the ACBM installation area was performed by Morrison Surveying, LLC from June 19, 2019 to June 20, 2019. The limits of installed ACBM are shown are shown in Figure 2 and, excluding panel overlaps, cover a surface area of approximately 4,096 square yards.

Buoy Relocation and Additional Anchor Installation

While deployed to perform the slope enhancement work, GHD also performed maintenance, relocation and supplemental anchoring of the existing perimeter buoy system for the TCRA armored cap. The perimeter buoy system consists of approximately 1,800 feet of continuously connected

orange ball buoys, anchored incrementally along the length of the buoy line, and six individually anchored regulatory buoys. The purpose of the buoy relocation and supplemental anchoring was to realign the perimeter buoy system more closely with the boundary of the armored cap and to install approximately 600 pounds of additional anchor weight at 17 locations along the ball buoy line, spaced approximately 100 feet apart. The approximate location of the relocated perimeter buoy system and the supplemental ball buoy anchor points are shown in Figure 3. The buoy relocation and supplemental anchoring work consisted of the following components:

- On May 29, 2019, GHD temporarily removed the portion of the perimeter buoy system on the west side of the central berm that was blocking access to the slope enhancement area, to be relocated after ACBM installation was completed.
- On June 11, 2019, GHD poured 34 cast-in-place concrete anchors, each weighing approximately 300 pounds, with concrete delivered to the site by SRM Concrete. (To facilitate manageability during transport and installation, GHD opted to install two 300-pound anchors at each of the 17 supplemental buoy anchor points, rather than one 600-pound anchor.)
- On June 17, 2019, GHD replaced the batteries for the lights atop the six regulatory buoys.
- On June 18, 2019, GHD relocated the portion of the perimeter buoy system on the east side of the central berm.
- On June 19, 2019, GHD installed the new anchors for the relocated buoy system.
 - On the east side of the central berm, the new anchors were connected to the relocated buoy line.
 - On the west side of the central berm, where the buoy system had not yet been relocated, the anchors were deployed at their target locations, with floats attached to the tops of the anchor cables for connection to the buoy line after relocation.
- On June 20, 2019, GHD relocated the portion of the perimeter buoy system on the west side of the central berm and connected the new anchors to the relocated buoy line.

Site Restoration and Demobilization

Site restoration and demobilization from the SJRWP site occurred from June 18, 2019 to June 21, 2019 and included the following components:

- Removed timber cross ties and board mats from the grout pumping pad in the northeast region of the western cell and demobilized them from the site.
- Incrementally demobilized all personnel, materials, and equipment.

Final housekeeping and demobilization tasks were completed on June 21, 2019.

References

- GHD (GHD Services, Inc.), 2019. Construction Execution Plan, Northwest Cap Slope Enhancement, San Jacinto River Waste Pits Site, Harris County, Texas. International Paper Company and McGinnes Industrial Management Corporation.
- USEPA (U.S. Environmental Protection Agency), 2010. Administrative Settlement Agreement and Order on Consent for Removal Action. U.S. Environmental Protection Agency Region 6 CERCLA Docket No. 06-03-10. In the matter of: San Jacinto River Waste Pits Superfund Site Pasadena, Harris County, Texas. International Paper Company and McGinnes Industrial Management Corporation, Respondents.

Figures

Figure 1	Northwest Slope Enhancement Area
Figure 2	Northwest Slope Enhancement As-Built Conditions
Figure 3	Buoy Relocation and Additional Anchor Installation

Attachments

Attachment 1 Anchor QEA Northwest Slope Enhancement Daily Reports

FIGURES





LEGEND:

April 2019 Bathymetric and Topographic Contours (1-Foot Interval)



Armored Cap Type and Boundary

----7

Historic Impoundment Limits

Slope Enhancement Area

SOURCE: Drawing prepared from survey provided by Hydrographic Consultants dated April 2019.
HORIZONTAL DATUM: Texas State Plane South Central, North American Datum of 1983 (NAD83), U.S. Survey Feet
VERTICAL DATUM: North American Vertical Datum of 1988 (NAVD 88)



Figure 1

Northwest Slope Enhancement Area Time Critical Removal Action (TCRA) Armored Cap San Jacinto River Waste Pits Superfund Site





LEGEND:

	June 2019 Bathymetric and Topographic Contours (2-Foot Interval)
	April 2019 Bathymetric and Topographic Contours (2-Foot Interval)
B/C	Armored Cap Type and Boundary
	Historic Impoundment Limits
	Limit of Installed ACBM

SOURCE: Drawing prepared from April 2019 survey provided by Hydrographic Consultants and June 2019 survey provided by Morrison Surveying, Inc.
HORIZONTAL DATUM: Texas State Plane South Central, North American Datum of 1983 (NAD83), U.S. Survey Feet
VERTICAL DATUM: North American Vertical Datum of 1988 (NAVD 88)



Figure 2

Northwest Slope Enhancement As-Built Conditions Time Critical Removal Action (TCRA) Armored Cap San Jacinto River Waste Pits Superfund Site





LEGEND:

	2019 Bathymetric and Topographic Contours (1-Foot Interval)
B/C	Armored Cap Type and Boundary
	Historic Impoundment Limits
••••	Approximate Location of Relocated Perimeter Buoy System
(A17)•	Designation and Approximate Location of Supplemental Buoy Anchors

NOTE: Original buoy anchor locations not shown.

SOURCE: Bathymetric and topographic data from April 2019 survey provided by Hydrographic Consultants. HORIZONTAL DATUM: Texas State Plane South Central, North American Datum of 1983 (NAD83), U.S. Survey Feet VERTICAL DATUM: North American Vertical Datum of 1988 (NAVD 88)



Figure 3

Buoy Relocation and Additional Anchor Installation Time Critical Removal Action (TCRA) Armored Cap San Jacinto River Waste Pits Superfund Site

ATTACHMENT 1 ANCHOR QEA NORTHWEST SLOPE ENHANCEMENT DAILY REPORTS



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PROJECT	San Jacinto River Waste Pits ACBM Installa	ition		CONTRA	CT NO.					
CONTRACTO	R GHD		SUPERINT	INDENT	Damian	Dovin				
DAY OF WEE	K & DATE: Monday, May 20, 2019				REPORT N	NO. 001				
WEATHER			TEMPERA	TURE	L:74	H:85 degrees F				
NUMBER/CL	ASS OF CONTRACTOR'S PERSONNEL:	MAJOR EC		ON JOB (Si	ze/capaci ⁻	ty and hours):				
18 – GHD, C	CI & AQ	Small fork	lift, Bobcat	T740, Cat 9	920M fork	klift				
TIDE INFORM	ATION: Morgans Point, Barbours Cut, TX	HEALTH A	ND SAFETY	INFORMA [®]	TION:					
Time: 1530	Height: 2.92 ft	No incider	nts or near n	nisses on tl	his date.					
Tidal data ba 0700 – 1530 1600 to 1645 N	 CHRONOLOGICAL ACCOUNT OF DAY'S WORK: NOAA Tide Station data indicates MHHW = 1.59 (reference to MLLW = 0). Tidal data based on Barbours Cut at Morgans Point. Preliminary high tide ~3 ft (MLLW), predicted hight tide was 1.7 ft. 0700 – 1530 Equipment and materials delivered to project site. Staged geotextile material. Equipment on site (crane, forklift, crane, bulldozer, bobcat) and misc pipes and hoses. Delivery of 4 phase grout pump, hoses, roll-out pipes. 1600 to 1645 – Health and Safety Tailgate meeting near the west gate, north bank, immediately inside entry gate. Meeting covered heat and fluids; onsite construction plan, communications and safety as priorities. Introduced project work expectatinos, tentative daily working schedule, and supervisors. 1700 – Project site closed and locked.									
 Initia Persons On-S Cris Weber (A Mitch Blanch Damian Dovi Ben Bufkin (C 	n (GHD)									



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Material Delivery	Summa	ry as of this Date:							
Material	Units	Delivered (units)		Verification ethod	Preceding Delivered Total	Total Delivered for Project			
Geotextile									
fabric	Roll	25	C	ount	0	25			
TESTS PERFORME	D: 1	None							
PHONE LOG:									
SITE PHOTOS/VID	EOS TAI	<u>KEN:</u> (attached belo	w)	FORCE ACCOL	JNT WORK/ CHANG	GES ENCOUNTERED:			
4 photos (descript	ions pro	ovided underneath pl	hoto)	None					
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		K K	and the second		A AND AND AND A	and the second sec			
		Photo 1	1 – Geotextile	e fabric rolls for	ACBM.				



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Photo 2 – Grouting hoses and roll-out pipes.



Photo 3 – Bobcat and Cat bulldozer.



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PROJECT	San Jacinto R	River Wast	e Pits ACBM Installat	ion		CONTRA	CT NO.		
CONTRACTO	R GHD				SUPERINTE	NDENT	Damian	Dovin	
DAY OF WEE	K & DATE:	Tuesday	, May 21, 2019					10.	002
WEATHER		·			TEMPERA	TURE	L:75	H:86 de	egrees F
NUMBER/CL	ASS OF CONT	RACTOR'S	PERSONNEL:	MAJOR EC	QUIPMENT	DN JOB (Si	ze/capaci ⁻	ty and l	hours):
18 – GHD, CO	CI & AQ			Small fork	lift, Bobcat	T740, Cat	920M fork	dift	
	, Barbours Cut, TX		ND SAFETY						
Time: 1400	Height:	3.94 ft	at High Tide	No incider	nts or near n	nisses on t	his date.		
CHRONOLOG		IT OF DAY	'S WORK:						
 NOAA Tide Station data indicates MHHW = 1.59 (reference to MLLW = 0). Tidal data based on Barbours Cut at Morgans Point. 2pm is predicted high-tide at 1.97 ft MLLW. Preliminary high tide ~2p is 3.94 ft (MLLW). 0600 - 1130 Personnel onsite and equipment and materials delivered to project site. Geotextile underlayment Timber mats and lumber cross-ties 									
- Initia	water levels n l bathymetric – Delivery of	survey be		ea for ACBN	1 constructio	on.			
1400 to 1700	– Continued	delivery o	s for project site con f gravel to maintain intenance for ACBM	laydown are	ea for ACBM				
1730 – Projec	ct site closed a	ind locked							
	Progress on th inued mobiliza		uipment and materi	als.					
Persons On-S	lite on this Da	<u>te:</u>							
Damian Dovi Ben Bufkin-9 Ryan Proulx-9 Clint Guillory	12-484-1688 - n-269-270-706 85-226-0899 - 906-370-1925 -337-764-5802 ard - 225 773	53 - GHD CCI - GHD 2 - GHD	D						



	Units	Delivered (units)	Delivery Verification Method	Preceding Delivered Total	Total Delivered for Project
Wooden roadway pallets			Truck		
Lumber cross- ties			Truck		
Gravel			Truck		
ESTS PERFORME	D: No	ne			
HONE LOG:					
IONE LOG:					
TE PHOTOS/VID	EOS TAKEI	<u>N:</u> (attached belo	w) <u>FORCE ACCO</u>	UNT WORK/ CHANG	GES ENCOUNTERED:
photos (descript	ions provid	ded underneath p	hoto) None		
				+	



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Photo 2 – Timber cross-ties



Photo 3 – Timber crane mats



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PROJECT	San Jacinto R	iver Wast	e Pits ACBM Installat	ion		CONTRA			
CONTRACTO					SUPERINTE		Damian	Dovin	
DAY OF WEE		Wednes	day, May 22, 2019						003
WEATHER	NO DAIL.	weates	uay, way 22, 2015		TEMPERA				
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19 – GHD, CO	ASS OF CONTE	ACTORS	PERSONNEL:		QUIPMENT (lift, Bobcat		-	-	
	-				,	,			
TIDE INFORM	HEALTH A	ND SAFETY	INFORMA	TION:					
Time: 1330	No incider	nts or near n	nisses on t	his date.					
CHRONOLOG		IT OF DAY	'S WORK:						
NOAA Tide Station data indicates MHHW = 1.31 (reference to MLLW = 0). Tidal data based on Barbours Cut at Morgans Point. 3:30p is predicted high-tide at 1.74 ft MLLW. Preliminary high tide ~3:30p is 3.39 ft (MLLW).									
0600 to 0630	Personnel on	site and s	afety briefing for ~15	general site	e workers.				
- Surve - Initia - Ongo	 0700 to 1630 - Onsite construction operations: Survey crew setting stakes for mat locations below waterline Initial construction/assembly of ACBM mattresses forms Ongoing maintenance of ACBM installation access roadway 1400 to 1700 - Site deliveries: Delivery of gravel to maintain laydown area for ACBM construction and roadway 								
•	Small barge	e for float	ing construction plat	form					
1730 – Projec	ct site closed a	nd locked							
InitiaConti	inued mainten	on/assem ance of co	bly of ACBM mattres onstruction access ro locations along NW s	adway					
Persons On-S	ite on this Da	<u>te:</u>							
Damian Dovii Ben Bufkin-98 Ryan Proulx-9	12-484-1688 - n-269-270-706 85-226-0899 - 906-370-1925 -337-764-5802 site workers	63 - GHD CCI - GHD							



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Material Delivery Summary as of this Date:									
Material	Units	Delivered (units)		Verification ethod	Preceding Delivered Total	Total Delivered for Project			
Gravel			Т	ruck					
Deck barge			Т	ruck					
TESTS PERFORME	D: N	one							
PHONE LOG:									
SITE PHOTOS/VIDEOS TAKEN: (attached below) FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:									
4 photos (descriptions provided underneath photo) None									
		Photo 1 – Mai	Intenance of the second s	construction ac	rcess roadway				







Photo 2 – ACBM mattress form assembly



Photo 3 – Floating barge delivery



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PROJECT	San Jacinto R	River Wast	e Pits ACBM Installat	ion		CONTRA	ACT NO.			
CONTRACTO	R GHD				SUPERINTE	NDENT	Damian	Dovi	n	
DAY OF WEE	K & DATE:	Thursday	y, May 23, 2019					10.	004	
WEATHER					TEMPERA	TURE	L:75	H:87	degrees F	
NUMBER/CL	ASS OF CONTR	RACTOR'S	PERSONNEL:	MAJOR EC		ON JOB (S	ize/capaci	ty an	d hours):	
18 – GHD, CO	CI & AQ			Small fork	lift, Bobcat	T740, Cat	920M load	der, C	at bobcat.	
TIDE INFORM	IATION: Morg	ans Point	, Barbours Cut, TX	HEALTH AND SAFETY INFORMATION:						
Time: 1518	at High Tide	No incider	nts or near n	nisses on	this date.					
CHRONOLOGICAL ACCOUNT OF DAY'S WORK:										
 CHRONOLOGICAL ACCOUNT OF DAY'S WORK: NOAA Tide Station data indicates MHHW = 1.31 (reference to MLLW = 0). Tidal data based on Barbours Cut at Morgans Point. 4:15p is predicted high-tide at 1.74 ft MLLW. Preliminary high tide occurred at ~3:15p measured at 3.23 ft (MLLW). 0600 to 0630 Personnel onsite and safety briefing for ~18 general site workers. 0700 to 1700 – Onsite construction operations: Survey crew continued setting stakes for mat locations Continuted construction/assembly of ACBM mattresses Substantial completion of access roadway maintenance 1730 – Project site closed and locked. Summary of Progress on this Date: Divers visited the site for initial recon for installation (5/22) Continued construction/assembly of ACBM mattresses forms Substantial completion of access roadway maintenance 										
			g of ACBM locations							
Persons On-S	ite on this Da	<u>te:</u>								
Damian Dovin Ben Bufkin-98 Ryan Proulx-9	12-484-1688 - n-269-270-706 35-226-0899 - 906-370-1925 -337-764-5802	53 - GHD CCI - GHD								



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Material Delivery	v Summai	ry as of this Date:							
Material	Units	Delivered (units)		Verification ethod	Preceding Delivered Total	Total Delivered for Project			
Gravel			Truck						
TESTS PERFORME	ED: N	lone							
PHONE LOG:									
	ΕΟς ΤΔΚ								
SITE PHOTOS/VIDEOS TAKEN: (attached below) FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED: 4 whistes (descriptions arounded underneeth whete) Name									
4 photos (descriptions provided underneath photo) None									
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					and the second second second				
		and the second second			a start and a start				
		and the second			Sala serie				
	- Martin San	Photo 1 –	- Completion	of ACBM form	assembly				



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Photo 2 – Completed ACBM form assembly being moved to installation staging location



Photo 3 – Bathymetric site survey and ACBM layout



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PROJECT	San Jacinto F	River Wast	e Pits ACBM Installat	ion		CONTRA	ACT NO.		
CONTRACTO	R GHD	-			SUPERINTE	NDENT	Damian	Dovii	n
DAY OF WEE	K & DATE:	Friday, N	1ay 24, 2019					ю.	005
WEATHER	Cool (74 deg	F, strong	breeze (6-8 mph)		TEMPERA	TURE	L:73	H:89	degrees F
NUMBER/CL	ASS OF CONTR	RACTOR'S	PERSONNEL:	MAJOR EC		ON JOB (S	ize/capaci	ty and	d hours):
19 – GHD, CC	CI & AQ			Small fork lift, Bobcat T740, Cat 920M loader, Cat bobcat.					
TIDE INFORM	, Barbours Cut, TX	HEALTH AND SAFETY INFORMATION:							
Time: 1606	Height:	3.03 ft	at High Tide	No incider	nts or near n	nisses on	this date.		
CHRONOLOG		IT OF DAY	'S WORK:						
 NOAA Tide Station data indicates MHHW = 1.31 (reference to MLLW = 0). Tidal data based on Barbours Cut at Morgans Point. predicted high-tide at 4:15p is 1.74 ft MLLW. Preliminary high tide occurred at ~4:00p measured at 3.03 ft (MLLW). 									
0600 to 0615	: Personnel or	nsite and s	afety briefing.						
- Conti - Final	site prep of a	uction/asso ccess road	embly of ACBM matt						
1700 – Projec	ct site closed a	ind locked							
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Persons On-S	ite on this Da	<u>te:</u>							
Damian Dovii Ben Bufkin-98 Ryan Proulx-9	12-484-1688 - n-269-270-706 85-226-0899 - 906-370-1925 -337-764-5802	53 - GHD CCI - GHD							



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Material Delivery Summary as of this Date:							
Material	Units	Delivered (units)	,		Preceding Delivered Total	Total Delivered for Project	
TESTS PERFORMED: None							
PHONE LOG:							
SITE PHOTOS/VID	EOS TAK	<u>EN:</u> (attached belo	w)	FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:			
5 photos (descriptions provided underneath photo) None							
Phot 1 – Ongoing ACBM assembly							



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PROJECT	San Jacinto River Waste Pits ACBM Installation CONTRA					ACT NO.			
CONTRACTO	GHD SUPERINT			SUPERINTE	NDENT	Damian Dovin		n	
DAY OF WEEK & DATE: Tuesday, May 28, 2019					REPORT NO. 006			006	
WEATHERPartly cloudy, winds SSE at 10-20 mph, intelight showers between 1200 and 1400				ermittent TEMPERATURE L:78 H:88 degrees F					degrees F
NUMBER/CL	MAJOR EQUIPMENT ON JOB (Size/capacity and hours):								
26 – GHD, CCI, Underwater Technology Services, Shallow Water Equipment (SWE), & AQ			Small fork lift, Bobcat T740, Cat 920M loader, Cat bobcat, Cat long reach excavator, marsh buggy						
TIDE INFORMATION: Morgans Point, Barbours Cut, TX				HEALTH AND SAFETY INFORMATION:					
Time: 1842	Height: 2.82 ft at High Tide			No incidents or near misses on this date.					
CHRONOLOG	I								
CHRONOLOGICAL ACCOUNT OF DAY'S WORK: NOAA Tide Station data indicates MHHW = 1.31 (reference to MLLW = 0). Tidal data based on Barbours Cut at Morgans Point. Predicted high-tide at 5:54p is 1.41 ft MLLW Preliminary high tide occurred at ~7:00p measured at 2.82 ft (MLLW). 0600 to 0615: Personnel onsite and safety briefing. 0630 to 1730 – Onsite construction operations: Continuted construction/assembly of ACBM mattresses Mobilization of Underwater Technology Services dive crew and equipment Mobilization of SWE marsh buggy, long reach excavator, spud barge, and crew boat 1730 – Project site closed and locked. Summary of Progress on this Date: Continued construction/assembly of ACBM mattresses forms Mobilization of dive crew and equipment, marsh buggy, long reach excavator, spud barge, and crew boat for ACBM panel transport and installation Persons On-Site on this Date: Josef Hoffmann - 225-802-4914 - AQ Damian Dovin - 269-270-7063 - GHD Ben Bufkin - 985-226-0839 - CCI Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 - GHD Clint Guillory - 337-764-5802 - GHD 									
Mitch Blanchard - 225 773 9631 - GHD									



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	Units	Delivered (units)	Delivery Verification Method		Preceding Delivered Total	Total Delivered for Project	
STS PERFORM		one					
ONE LOG:							
E PHOTOS/V	IDEOS TAKE	EN: (attached belo	w)	FORCE ACCOL	UNT WORK/ CHANG	GES ENCOUNTERED:	
hotos (descri	ptions prov	ided underneath pl	hoto)	None			



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PROJECT San Jacinto River Waste Pits ACBM Installat	tion CONTRACT NO.					
CONTRACTOR GHD	SUPERINTENDENT Damian Dovin					
DAY OF WEEK & DATE: Wednesday, May 29, 2019	REPORT NO. 007					
WEATHER Partly cloudy, winds SSE at 10-20 mph	TEMPERATURE L:77 H:87 degrees F					
NUMBER/CLASS OF CONTRACTOR'S PERSONNEL:	MAJOR EQUIPMENT ON JOB (Size/capacity and hours):					
26 – GHD, CCI, Underwater Technology Services, Shallow Water Equipment (SWE), & AQ	Small fork lift, Bobcat T740, Cat 920M loader, Cat bobcat, Cat long reach excavator, marsh buggy					
TIDE INFORMATION: Morgans Point, Barbours Cut, TX	HEALTH AND SAFETY INFORMATION:					
Time: 0724 Height: 2.92 ft at High Tide	No incidents or near misses on this date.					
CHRONOLOGICAL ACCOUNT OF DAY'S WORK:						
 NOAA Tide Station data indicates MHHW = 1.31 (reference to MLLW = 0). Tidal data based on Barbours Cut at Morgans Point. Predicted high-tide at 5:36p is 1.34 ft MLLW Preliminary high tide occurred at ~7:30a measured at 2.92 ft (MLLW). 0600 to 0615: Personnel onsite and safety briefing. 0630 to 1630 – Onsite construction operations: Continued construction/assembly of ACBM mattresses Placed dive equipment adjacent to ACBM installation site Temporarily removed portion of perimeter buoys that was blocking construction access to the ACBM installation site Assembled grout pump hoses near ACBM installation site 1630 – Project site closed and locked. 						
 Summary of Progress on this Date: Continued construction/assembly of ACBM mattresses Made the following preparations for beginning ACBM installation operations: Placed dive equipment adjacent to ACBM installation site Temporarily removed portion of perimeter buoys that was blocking construction access to the ACBM installation site						

, Mitch Blanchard - 225 773 9631 - GHD


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Material	DeliveredDelivery VerificationUnits(units)Method		Preceding Delivered Total	Total Delivered for Project		
ESTS PERFORM	IED: No	one				
IONE LOG:						
TE PHOTOS/VI	DEOS TAKE	EN: (attached belo	ow)	FORCE ACCO	UNT WORK/ CHANG	GES ENCOUNTERED:
photos (descri	otions provi	ided underneath p	hoto)	None		
	Sec.					and the second



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PROJECT	San	Jacinto R	liver Waste	e Pits ACBM Installat	tion		CONTRA	CT NO.		
CONTRACTO	R	GHD				SUPERINTE	NDENT	Damian	Dovin	
DAY OF WEE	к&і	DATE:	Thursday	r, May 30, 2019					NO.	008
WEATHER	thu ten	nderstorr	n with obs uspension	5-10 mph. Afternoo ervations of lightnin of work from approx	g caused	TEMPERA	TURE	L:74	H:85 c	legrees F
NUMBER/CL										
25 – GHD, CO							-		der, Ca	t bobcat, Cat
Shallow Wate	Shallow Water Equipment (SWE), & AQ long reach excavator, marsh buggy									
TIDE INFORMATION: Morgans Point, Barbours Cut, TX HEALTH AND SAFETY INFORMATION:										
Time: 0654	Time: 0654Height: 2.51 ftat High TideNo incidents or near misses on this date.									
Tidal data bas • Predi • Prelir 0600 to 0615 0630 to 1330	tatio sed c icted mina : Per	n data ind on Barbou high-tide ry high tic sonnel or nsite cons	licates MH Irs Cut at N at 5:24p i de occurre Insite and s struction o	HW = 1.31 (referend Aorgans Point. s 1.30 ft MLLW d at ~7:00a measure afety briefing.	ed at 2.51 ft	(MLLW).				
• Bega 1330 to 1500	n rep) – Li _ł	placement ghtning w	t of 20-foo	ACBM installation sit t spuds on SWE spuc ed multiple times as	d barge with	n longer 35-f	oot spuds	;		work to be
temporarily s	uspe	indea.								

1500 to 1900 – Onsite construction operations:

• Completed replacement of 20-foot spuds on SWE spud barge with longer 35-foot spuds

1900 – Project site closed and locked.

Summary of Progress on this Date:

- Completed assembly of ACBM mattresse forms
- Made the following preparations for beginning ACBM installation operations:
 - Staged grout pump near the ACBM installation site and continued assembly of grout pump hoses
 - Replaced 20-foot spuds on SWE spud barge with longer 35-foot spuds

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 - AQ



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	y Summary	as of this Date: Delivered	Delivery	Verification	Preceding	Total Delivered for
Material	Units	(units)		ethod	Delivered Total	Project
ESTS PERFORM	IED: No	ne				
HONE LOG:						
ITE PHOTOS/VI	DEOS TAKEI	<u>N:</u> (attached belo	ow)	FORCE ACCOU	UNT WORK/ CHANG	GES ENCOUNTERED:
photos (descri	ptions provid	ded underneath p	hoto)	None		
			-	-1111		
				A 0.		
	KA		LOT-	LAC		
			2017			
	2					
					K/6 2	
				RR		
					05 30 201	9

Photo 1 – Sewing of geotextile fabric to ACBM form during mattress assembly



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PROJECT	San	Jacinto R	liver Wast	e Pits ACBM Installat	tion		CONTRA	CT NO.		
CONTRACTO	R	GHD				SUPERINTE	NDENT	Damian	Dovin	
DAY OF WEE	к & Г	DATE:	Friday, N	May 31, 2019		1			NO.	009
WEATHER	Par	tly cloudy	, winds E	at 5-10 mph		TEMPERA	TURE	L:73	H:94 de	egrees F
NUMBER/CL	ASS (OF CONTR	RACTOR'S	PERSONNEL:	MAJOR EC	QUIPMENT (ON JOB (S	ize/capaci	ty and I	nours):
25 – GHD, C				e ,					der, Cat	bobcat, Cat
Shallow Wate	er Eq	uipment ((SWE), & /	AQ	long reach	n excavator,	marsh bu	ggy		
TIDE INFORM	ΛΑΤΙΟ	ON: Morg	ans Point	, Barbours Cut, TX	HEALTH A	ND SAFETY	INFORMA	TION:		
Time: 0918		Height:	2.16 ft	at High Tide	No incider	nts or near n	nisses on t	this date.		
CHRONOLOG		ΔΟΟΙΙΝ								
		Accoon		<u> </u>						
				HW = 1.31 (reference	ce to MLLW	= 0).				
				Morgans Point.						
 Predicted high-tide at 9:12a is 1.34 ft MLLW Preliminary high tide occurred at ~9:30a measured at 2.16 ft (MLLW). 										
• Field	IIIIIa	iy nign tic		tu at 9.50a measure	u at 2.10 ft	(IVILLVV).				
0600 to 0615	5 – Pe	rsonnel o	onsite and	safety briefing.						
0630 to 1815	5 – Or	nsite cons	truction o	operations:						
	ione	d barge-m		xcavator and marsh	buggy at the	e ACBM inst	allation si	e for depl	oyment	of panels
• Depl	oyed	sorbent k	boom aro	und the ACBM install	ation work	area.				
• Depl	oyed	ACBM pa	nels 201	and 202 and anchore	ed them in p	lace on the	water bot	tom.		
1815 to 1830) — Sit	e prepare	ed for per	sonnel departure.						
		• •	the wate	•						
				brought to shore.						
				horeline near the AC						
• Barg	e mo	unted exc	avator st	aged at the shoreline	e south of th	ie ACBM inst	tallation s	ite near th	e Weste	ern Berm.
1830 – Proje	ct site	e closed a	nd locked	I.						
Summary of	Prog	ress on th	nis Date:							
				and 202 and anchore	ed them in p	lace on the	water bot	tom.		
Persons On-S	Sito o	n this Do	to							
Josef Hoffma										
Damian Dovi										
Ben Bufkin -	985-2	226-0899	- CCI							
Rvan Proulx -	906.	370-1925	S - GHD							

Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 – GHD



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Material	Units	Delivered (units)	-	Verification ethod	Preceding Delivered Total	Total Delivered for Project
		None				
		None				
<u>PHONE LOG:</u>						
SITE PHOTOS/VII	DEOS TAI	<u>KEN:</u> (attached belo	w)	FORCE ACCO	UNT WORK/ CHANG	GES ENCOUNTERED:
5 photos (descrip	tions pro	ovided underneath p	hoto)	None		



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DROJECT	Corr						CONTRA			
PROJECT			iver wast	e Pits ACBM Installat	.1011		CONTRA			
CONTRACTO		GHD				SUPERINTE		Damian		
DAY OF WEE	к& [DATE:	Saturday	, June 1, 2019				REPORT N	10.	010
WEATHER	Sur	iny, winds	SE at 5-10	0 mph		TEMPERA	TURE	L:74	H:91 de	egrees F
NUMBER/CL						QUIPMENT			-	-
25 – GHD, C									der, Cat	bobcat, Cat
Shallow Wate	er Eq	uipment (SVVE), & P	AQ.	long reacr	n excavator,	marsn bug	gy		
TIDE INFORM	ΙΑΤΙΟ	ON: Morg	ans Point,	Barbours Cut, TX	HEALTH A	ND SAFETY	INFORMA	TION:		
Time: 0912		Height:	2.21 ft	at High Tide	No incider	nts or near n	nisses on t	his date.		
CHRONOLOG		ACCOUN	I UF DAY	<u>3 WURN:</u>						
NOAA Tide St	DAA Tide Station data indicates MHHW = 1.31 (reference to MLLW = 0).									
	dal data based on Barbours Cut at Morgans Point.									
• Prelii	mina	ry nign tid	e occurre	d at ¹⁹ 9:00a measure	ed at 2.21 ft	(IVILLVV).				
0600 to 0615	i – Pe	ersonnel o	nsite and	safety briefing.						
0630 to 1815	_ O	nsite cons	truction o	nerations:						
				cavator and marsh	buggy at the	e ACBM insta	allation site	e.		
				und the ACBM install						
				ring of the connection			-			
		npletion o	f the zippe	ering, panel forms w	ere re-posit	ioned and re	e-anchored	d in place	on the v	water
botto	Jm.									
1815 to 1830) — Sit	e prepare	d for pers	sonnel departure.						
 Worl 	< crev	ws exited	the water							
				brought to shore.						
				noreline near the AC				al Berm.		
• Daige	emo	unteu exc		nged at the shoreline	near the w	estern bern	1.			
1830 – Proje	ct sit	e closed a	nd locked							
Summary of	Drog	race on th	ic Data:							
-	-			ring of the connection	on between	ACBM pane	els 201 and	202.		
				ed panels 201 and 20						
Persons On-S		on this Dat								

Josef Hoffmann - 225-802-4914 - AQ Damian Dovin - 269-270-7063 - GHD Ben Bufkin - 985-226-0899 - CCI



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Material	Units	Delivered (units)	-	Verification ethod	Preceding Delivered Total	Total Delivered for Project	
STS PERFORM	IED: No	one					
HONE LOG:							
ITE PHOTOS/V	DEOS TAKE	N: (attached belo	w)	FORCE ACCOL	JNT WORK/ CHANG	GES ENCOUNTERED:	
SITE PHOTOS/VIDEOS TAKEN:(attached below)FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:5 photos (descriptions provided underneath photo)None							















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PROJECT	San J	acinto R	iver Waste	e Pits ACBM Installat	tion		CONTRA	CT NO.		
CONTRACTO		GHD				SUPERINTE		Damian	Dovin	
DAY OF WEE	K & D/	ATE:	Monday,	June 3, 2019				REPORT	NO.	011
WEATHER	Sunn	y, winds	SE at 5-10) mph		TEMPERA	TURE	L:74	H:91 de	egrees F
NUMBER/CL	ASS O	F CONTR	ACTOR'S	PERSONNEL:	MAJOR E	QUIPMENT (ON JOB (S	ize/capaci	ty and I	hours):
26 – GHD, Co Shallow Wate						lift, Bobcat nexcavator,	-		der, Cat	bobcat, Cat
	•		· · ·		_					
	ΛΑΤΙΟ			Barbours Cut, TX		ND SAFETY				
Time: 1100		Height:	2.14 ft	at High Tide	No incidei	nts or near n	nisses on t	this date.		
CHRONOLOG	GICAL A	ACCOUN	T OF DAY	'S WORK:	I					
Tidal data ba Pred Prelin 0600 to 0615 0630 to 0900 Posit Depl Setur 0915 to 1300 Oeliv	sed on icted h minary 5 – Pers) – Ons cioned oyed s p grou) – Ons very of 5 – 45 5 – Du Pui wh	n Barbou nigh-tide v high tid sonnel o site const barge-m orbent b t pump a site const concrete cubic ya ring grou mping of ile the se	rs Cut at N at 12:00p le occurred nsite and truction of oounted ex boom arou and hoses truction of e and grou rds of con uting opera- f grout was egment of	cavator and marsh and the ACBM install in preparation for co perations: uting of ACBM forms crete was delivered ations, a leak occurr s immediately halted hose was replaced.	red at 2.14 buggy at the ation work oncrete deli 5 201 and 20 in 5 trucklo ed in a segr d and grout	ft (MLLW). e ACBM insta area. ivery. 02. ads by SRM nent of the i	Concrete. n-water p	ortion of t	-	
1745 to 1800 • Worl • Sorb • Mars • Barg	oyed A) – Site k crew ent bo sh bug e mou	CBM for prepare s exited om deta gy staged nted exc	rms 203 ar ed for pers the water ched and d at the sh avator sta	nd 204 and anchored connel departure. brought to shore. oreline near the ACl ged at the shoreline	BM installat	tion site and	the Centr	al Berm.	e Weste	ern Berm.
1815 – Proje	ct site	closed a	nd locked.							



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Summary of Progress on this Date:

- Completely grouted ACBM form 201; partially grouted ACBM form 202.
- Deployed ACBM forms 203 and 204 and anchored them in place on the water bottom.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 - AQ Damian Dovin - 269-270-7063 - GHD Ben Bufkin - 985-226-0899 - CCI Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 - GHD Mitch Blanchard - 225 773 9631 - GHD Judy Armour - MIMC Phil Slowiak - IP Brent Sasser - IP

Material Delivery Summary as of this Date:

Material	Units	Delivered (units)	Delivery Verification Method	Preceding Delivered Total	Total Delivered for Project
TESTS PERFORM	ED: No	one			
PHONE LOG:					
SITE PHOTOS/VI	DEOS TAKE	<u>N:</u> (attached belo	w) <u>FORCE ACCO</u>	UNT WORK/ CHANG	GES ENCOUNTERED:
5 photos (descrip	otions provi	ded underneath p	hoto) None		















PAGE	5	OF	5
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PROJECT	San Jacinto R	liver Wast	e Pits ACBM Installat	tion		CONTRA			
CONTRACTO					SUPERINTI		Damian	Dovin	
		Turnalau	hun a 1, 2010		JOI LIMIT				012
DAY OF WEE			, June 4, 2019				REPORT N		012
WEATHER	Sunny, winds	s SE at 10-	15 mph		TEMPERA	TURE	L:78	H:89 de	grees F
-	ASS OF CONTR				QUIPMENT			-	-
	CI, Underwate				lift, Bobcat	,		der, Cat	bobcat, Cat
Shallow Wate	er Equipment	(SWE), & A	AQ	long react	n excavator,	marsh bug	ſġγ		
TIDE INFORM	ATION: Morg	ans Point	, Barbours Cut, TX	HEALTH A	ND SAFETY	INFORMA	TION:		
Time: 1236	Height:	2.44 ft	at High Tide	No incide	nts or near n	nisses on t	his date.		
CHRONOLOG		IT OF DAY	'S WORK:						
 Preli 0600 to 0615 0630 to 1015 Posit Depl Repo Depl Prep 1215 – Exxor 	minary high tid 5 – Personnel c 5 – Onsite cons cioned barge-m oyed sorbent l ositioned and a oyed ACBM fo ared grout pur h Mobile Pipeli	de occurre onsite and atruction o nounted ex poom arou inchored A rm 205 an mp and gro ne represe	xcavator and marsh und the ACBM install ACBM forms 203 and d anchored it in plac out hoses for deliver entative visited the s	buggy at the lation work I 204 on the ce on the wa y of concre ite and con	e ACBM inst area. water botto ater bottom te and grout firmed that a	om. ing of ACB a warning	M forms. sign obser		
ā	and that there	is not a pi	stallation area, just v peline located there.	. The warni	ing sign was	therefore	removed.		C
	-	-	performing maintena	ance on the	spud cable s	system of S	SVVE S SPU	u parge.	
• Deliv	63 cubic ya	e and grou Irds of con was reject	perations: uting of ACBM forms crete was delivered ed upon visual obser he grout pump. The	in 7 trucklo vation of co	ads by SRM parse aggreg	Concrete. ate in the			-
SorbMars	ent boom deta sh buggy stage	ached and d near the	ecasted inclement we brought to shore. ACBM installation s aged at the shoreline	ite on the e	astern slope	of the Ce			ern Berm.



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- Dive shack and generators strapped down.
- Work crews exited the water.
- Grout hose staged atop the Central Berm.
- Grout pump staged near the entrance of the site.

1840 – Project site closed and locked.

Summary of Progress on this Date:

- Deployed ACBM form 205 and anchored it in place on the water bottom.
- Completed grouting of ABCM form 202; completely grouted ACBM forms 203 and 204; partially grouted ACBM form 205.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Damian Dovin - 269-270-7063 - GHD Ben Bufkin - 985-226-0899 - CCI Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 – GHD Mitch Blanchard - 225 773 9631 – GHD John Laplante – 206-795-2676 – AQ Judy Armour – MIMC Phil Slowiak – IP Brent Sasser – IP Charles Munce – GHD Janie Smith – GHD Nick Casten – GHD Mario Leal – S. Oliver & Associates LP (Exxon Mobile Pipeline representative)

Material Delivery Summary as of this Date:

Material	Units	Delivered (units)	Delivery Verificat Method	ion Preceding Delivered Total	Total Delivered for Project
ESTS PERFORM	IED: No	one			
PHONE LOG:					
SITE PHOTOS/VI	DEOS TAKI	EN: (attached belo	w) <u>FORCE</u>	ACCOUNT WORK/ CHAN	GES ENCOUNTERED:
6 photos (descri	ptions prov	ided underneath p	hoto) None		















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PROJECT	San Jacinto River Waste Pits ACBM Installation						CONTRACT NO.			
CONTRACTO	R GHD		SUPERINTE	ENDENT Damian Dovin			n			
DAY OF WEE						013				
WEATHER					TEMPERA	EMPERATURE L:76 H:90 degree				
NUMBER/CL	ASS OF CONTR	ACTOR'S	MAJOR EQUIPMENT ON JOB (Size/capacity and hours):							
25 – GHD, CCI, Underwater Technology Services, Shallow Water Equipment (SWE), & AQ				Small fork lift, Bobcat T740, Cat 920M loader, Cat bobcat, Cat long reach excavator, marsh buggy						
			Barbours Cut, TX	HEALTH A	ND SAFETY I	NFORMA	TION:			
Time: 1518	Height:	2.48 ft	at High Tide	No inciden	ts or near m	nisses on t	his date.			
 CHRONOLOGICAL ACCOUNT OF DAY'S WORK: NOAA Tide Station data indicates MHHW = 1.31 (reference to MLLW = 0). Tidal data based on Barbours Cut at Morgans Point. Predicted high-tide at 3:24p is 1.76 ft MLLW Preliminary high tide occurred at ~3:30p measured at 2.48 ft (MLLW). 0555 to 0625 – Personnel onsite and lightning standdown. Lightning was observed during morning arrival to the site, prompting all personnel to shelter in their vehicles for 30 minutes prior to the morning safety briefing. 0625 to 0650 – Safety briefing. 										
 0700 to 0810 – Onsite construction operations: Setup dive equipment and grout pump near ACBM installation site. Replaced board mats at ACBM form barge-loading location. Positioned marsh buggy at ACBM installation site. 0810 to 0855 – Performed manlift-assisted maintenance of spud barge spud cable system. 										
0850 – Delivery and setup of handwash station for port-o-let near ACBM installation site.										
 0855 to 1330 – Onsite construction operations: Transported and positioned barge-mounted excavator at the ACBM installation site. Deployed sorbent boom around the ACBM installation work area. Deployed ACBM forms 206 and 207. During the deployment of ACBM form 207, the form was pulled by the barge-mounted excavator while 										

During the deployment of ACBM form 207, the form was pulled by the barge-mounted excavator while tied-off to a Warning/No Trespassing sign on the shoreline for anchoring, causing the sign to be pulled and tipped over. No personnel were in the immediate vicinity of the sign when it tipped over. Upon standing the sign back upright, no damage to its integrity from the fall was apparent.



1345 to 1500 – Terry Andrews with TCEQ visited the site, met with GHD and AQ personnel, and observed construction operations.

1410 to 1830 – Onsite construction operations:

- Delivery of concrete and grouting of ACBM forms 205, 206, and 207.
 - o 81 cubic yards of concrete delivered in 9 truckloads by SRM Concrete.
 - Lightning observed during pumping of grout from the 8th truck at approximately 1830 caused a halting of grouting operations for the day.
 - The 8th and 9th trucks departed the site, with an estimated total of 15 cubic yards of concrete grout not offloaded.
 - Machinery was staged and work crews exited the water as quickly as possible.

1910 – Project site closed and locked.

Summary of Progress on this Date:

- Deployed ACBM forms 206 and 207.
- Completed grouting of ACBM form 205; completely grouted ACBM form 206; partially grouted ACBM form 207.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Damian Dovin - 269-270-7063 - GHD Ben Bufkin - 985-226-0899 - CCI Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 – GHD Terry Andrews - 337-764-5802 – TCEQ

Material Delivery Summary as of this Date:

Material	Units	Delivered (units)	-	Verification ethod	Preceding Delivered Total	Total Delivered for Project		
rests perform <u>Phone log:</u>	ED: N	one						
/								
SITE PHOTOS/VIDEOS TAKEN: (attached below) FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED: 6 photos (descriptions provided underneath photo) None								









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PROJECT	San Jacinto River Waste Pits ACBM Installation						ACT NO.			
CONTRACTO	R GHD				SUPERINTI	INTENDENT Damian Dovin				
DAY OF WEE	K & DATE:	Friday, J	une 7, 2019				REPORT N	10.	014	
WEATHER	Mostly sunn	y, winds V	VNW at 10-15 mph.	TEMPERATURE L:73 H:94 degrees F						
NUMBER/CL/	ASS OF CONT	RACTOR'S	PERSONNEL:	MAJOR EQUIPMENT ON JOB (Size/capacity and hours):						
25 – GHD, CC				Small fork lift, Bobcat T740, Cat 920M loader, Cat bobcat, Cat						
Shallow Wate	er Equipment	(SWE), &	AQ	long reach excavator, marsh buggy						
TIDE INFORM	IATION: Mor	gans Point	, Barbours Cut, TX	HEALTH AND SAFETY INFORMATION:						
Time: 1418	Height	: 1.95 ft	at High Tide	No incider	nts or near n	nisses on	this date.			
CHRONOLOG			('S WORK:							
Tidal data bas • Predi										
0600 to 0615	– Personnel o	onsite and	safety briefing.							
SurveLoadeRefue	 Loaded ACBM form 101 onto barge for deployment. 									
0830 to 1000 • Deplo			operations: nd anchored it in plac	e in prepara	ation for gro	outing.				
 0900 to 1110 – Onsite construction operations: Delivery and placement of riprap and gravel next to grout pumping platform. 3 truckloads of riprap and 5 truckloads of gravel were delivered, each containing approximately 20 tons. The material was placed and graded next to the grout pumping platform, to serve as the location for a port-o-let, a handwash station, and future access to the dive shack, which will be relocated as the ACBM installation operations continue westward. 										
 1015 to 1220 - Onsite construction operations: Delivery of concrete and grouting of ACBM form 101. 36 cubic yards of concrete was delivered in 4 truckloads by SRM Concrete. ACBM forms were filled using approximately 33 of the 36 cubic yards delivered. Approximately 3 cubic yards was not offloaded from the 4th truck. 1300 to 1815 - Onsite construction operations: 										
 Barge 	Barge-loaded ACBM forms 208, 209, and 210 and transported them to the ACBM installation site.									



- Deployed sorbent boom around the ACBM installation work area.
- Deployed ACBM forms 208 and 209 and anchored them in place on the water bottom.

1815 to 1830 – Site prepared for personnel departure.

- Work crews exited the water.
- Sorbent boom detached and brought to shore.
- Marsh buggy staged at the shoreline near the ACBM installation site and the Central Berm.
- Barge mounted excavator staged at the shoreline south of the ACBM installation site near the Western Berm.

1850 – Project site closed and locked.

Summary of Progress on this Date:

- Deployed and grouted ACBM form 101.
- Deployed ACBM forms 208 and 209 and anchored them in place on the water bottom.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Damian Dovin - 269-270-7063 - GHD Ben Bufkin - 985-226-0899 - CCI Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 – GHD

Material Delivery Summary as of this Date:

Material Uni		Delivered (units)	Delivery Verification Method	Preceding Delivered Total	Total Delivered for Project		
Riprap	iprap		Truck				
Gravel			Truck				
ESTS PERFORM	ED: No	one					
SITE PHOTOS/VIDEOS TAKEN: (attached below) FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:							
photos (descriptions provided underneath photo) None							















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PROJECT	San	San Jacinto River Waste Pits ACBM Installation						CT NO.			
CONTRACTO	R	R GHD				SUPERINTE	NDENT	Damian	Dovin		
DAY OF WEEK & DATE: Saturday, June 8, 2019									NO.	015	
WEATHER Sunny, winds NW at 10-15 mph.					TEMPERATURE L:74 H:95 degrees F						
NUMBER/CL	ASS (OF CONTR	RACTOR'S	PERSONNEL:	MAJOR EQUIPMENT ON JOB (Size/capacity and hours):						
25 – GHD, CO					Small fork lift, Bobcat T740, Cat 920M loader, Cat bobcat, Cat						
Shallow Wate	er Eq	uipment ((SWE), & A	AQ	long reach excavator, marsh buggy						
TIDE INFORM	ΛΑΤΙΟ	ON: Morg	ans Point,	, Barbours Cut, TX	HEALTH AND SAFETY INFORMATION:						
Time: 1648		Height:	1.89 ft	at High Tide	No incider	nts or near n	nisses on t	his date.			
CHRONOLOG	GICAL	ACCOUN	IT OF DAY	'S WORK:							
 NOAA Tide Station data indicates MHHW = 1.31 (reference to MLLW = 0). Tidal data based on Barbours Cut at Morgans Point. Predicted high-tide at 4:36p is 1.65 ft MLLW Preliminary high tide occurred at ~4:45p measured at 1.89 ft (MLLW). 0600 to 0615 - Personnel onsite and safety briefing. 0630 to 0755 - Onsite construction operations: Setup of grout pump and hoses. Positioned barge-mounted excavator and marsh buggy at the ACBM installation site. Deployed sorbent boom around the ACBM installation work area. 0810 to 1220 - Onsite construction operations: Delivery of concrete and grouting of ACBM form 207, 208, 209, and 210. 72 cubic yards of concrete was delivered in 8 truckloads by SRM Concrete. ACBM forms were filled using approximately 71 of the 72 cubic yards delivered. Approximately 1 cubic yard was not offloaded from the 8th truck. 0820 to 0930 - Onsite construction operations: Description operations: ACBM forms were filled using approximately 71 of the 72 cubic yards delivered. Approximately 1 cubic yard was not offloaded from the 8th truck. 											
 Deployed ACBM form 210. 1220 to 1300 – Site prepared for personnel departure. Work crews exited the water. Sorbent boom detached and brought to shore. Marsh buggy staged at the shoreline near the ACBM installation site and the Central Berm. Barge mounted excavator staged at the shoreline south of the ACBM installation site near the Western Berm. 1315 – Project site closed and locked. 											

Summary of Progress on this Date:


• Completed grouting of ACBM form 207; grouted ACBM forms 208, 209, and 210.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Damian Dovin - 269-270-7063 - GHD Ben Bufkin - 985-226-0899 - CCI Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 – GHD

Material	Units	Delivered (units)	Delivery Verificati Method		Preceding Delivered Total	Total Delivered for Project				
TESTS PERFORME	D: N	one								
PHONE LOG:										
SITE PHOTOS/VIDEOS TAKEN: (attached below) FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:										
6 photos (descript	tions prov	ided underneath p	hoto)	None						
Photo	6 photos (descriptions provided underneath photo) None									



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Photo 3 – Insertion of the grout hose into an ACBM form during grout pumping operations



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PROJECT	San Jacinto R	iver Wast	e Pits ACBM Installat	ion		CONTRA	CT NO.				
CONTRACTO	R GHD				SUPERINTE	NDENT	Damian	Dovin			
DAY OF WEE	K & DATE:	Monday	, June 10, 2019					NO.	016		
WEATHER	Variable clou	ds, winds	N at 10-15 mph.		TEMPERA	TURE	L:73	H:91 de	egrees F		
NUMBER/CL	ASS OF CONTE	RACTOR'S	PERSONNEL:	MAJOR EC		ON JOB (S	ize/capaci	ty and l	hours):		
	CI, Underwate		•••	Small fork lift, Bobcat T740, Cat 920M loader, Cat bobcat, Cat							
Shallow Wate	Shallow Water Equipment (SWE), & AQ					long reach excavator, marsh buggy					
TIDE INFORM	ATION: Morg	ans Point	, Barbours Cut, TX	HEALTH A	ND SAFETY	INFORMA	TION:				
Time: 1654	Height:	1.46 ft	at High Tide	No incider	nts or near n	nisses on t	his date.				
CHRONOLOG		IT OF DAY	'S WORK:								
 Prelin 0600 to 0615 0630 to 0800 Disco C C Surve Loade Posit Deplo 	 NOAA Tide Station data indicates MHHW = 1.31 (reference to MLLW = 0). Tidal data based on Barbours Cut at Morgans Point. Predicted high-tide at 5:06p is 1.41 ft MLLW Preliminary high tide occurred at ~5:00p measured at 1.46 ft (MLLW). 0600 to 0615 - Personnel onsite and safety briefing. 0630 to 0800 - Onsite construction operations: Discovered damage to security fence and stolen generator. During site setup activities, a hole in the security fence to the south of the main gate was discovered. Additionally, it discovered that the lock on CCI's trailer was broken and that a generator had been stolen over the weekend. Two supersacks of sandbags were subsequently placed in front of the damaged portion of the security fence to temporarily cover the hole. Surveyed current grouted boundaries of installed ACBM. Loaded ACBM forms onto barge for transport and deployment. Positioned barge-mounted excavator and marsh buggy at the ACBM installation site. Deployed sorbent boom around the ACBM installation work area. 										
Deplo Conti hand 1140 to 1350	nued placeme wash station, – Onsite cons ery of concret	rms 301 a ent and gra and acces truction o e and grou	nd 302; partially dep ading of gravel next t s to the dive shack o	to grout pur nce ACBM i 301 and 30	mping platfo nstallation o 02.	perations	move wes	•			
1315 to 1420	– AQ and GHI	O discusse	d the positioning of	the equipm	ent used in o	deploying	ACBM for	m 303.			

1350 to 1515 – Onsite construction operations:



• Completed deployment of ACBM form 303.

1355 – Manlift used for the repair of SWE's spud barge cables on Thursday, 6/6 was picked up from the site.

1500 to 1630 – Terry Andrews with TCEQ visited the site, met with GHD and AQ personnel, and observed construction operations.

1640 to 1740 – Onsite construction operations:

- Delivery of concrete and grouting of ACBM forms 302 and 303.
 - o 27 cubic yards of concrete was delivered in 3 truckloads by SRM Concrete.

1740 to 1800 – Site prepared for personnel departure.

- Work crews exited the water.
- Sorbent boom detached and brought to shore.
- Marsh buggy staged near the shoreline of the western cell near the ACBM installation site.
- Barge mounted excavator staged at the shoreline south of the ACBM installation site near the Western Berm.

1800 to 1820 – AQ and GHD discussed logistics of pouring and installing the additional concrete anchors for the perimeter buoy system. The forms for the anchors were delivered on Friday, 6/7.

1825 – Project site closed and locked.

Summary of Progress on this Date:

- Deployed ACBM forms 301, 302, and 303.
- Completely grouted ACBM forms 301 and 302; partially grouted ACBM form 303.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Damian Dovin - 269-270-7063 - GHD Ben Bufkin - 985-226-0899 - CCI Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 – GHD Terry Andrews - 337-764-5802 – TCEQ

Material	Units	Delivered (units)	Delivery Verification Method	Preceding Delivered Total	Total Delivered for Project				
	<u> </u>								
TESTS PERFORM	ED: No	None							







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Г												
PROJECT	Sar	n Jacinto R	iver Wast	e Pits ACBM Installat	tion		CONTRA	ACT NO.				
CONTRACTO	R	GHD				SUPERINTE	NDENT	Damian	Dovin			
DAY OF WEE	K & I	DATE:	Tuesday,	June 11, 2019		1		REPORT N	0.	017		
WEATHER	Var	iable clou	ds, winds	NE at 5-10 mph.		TEMPERA	TURE	L:71	H:87 d	egrees F		
NUMBER/CL	ASS		ACTOR'S	PERSONNEL:	MAJOR EC		ON JOB (S	Size/capacit	y and I	hours):		
26 – GHD, Co Shallow Wate					Small fork lift, Bobcat T740, Cat 920M loader, Cat bobcat, Cat long reach excavator, marsh buggy							
	ΙΑΤΙ			Barbours Cut, TX		ND SAFETY						
Time: 1718		Height:	2.14 ft	at High Tide	No incider	nts or near n	nisses on	this date.				
CHRONOLOG	GICAI	ACCOUN	T OF DAY	'S WORK:								
Tidal data ba Pred Prelin 0600 to 0615 0630 to 0805 Surve Load Posit	sed o icted mina 5 – Pe eyed ed A ione b B d tr	on Barbou I high-tide ry high tid ersonnel o nsite cons current g CBM form d barge-m efore tran amage to ransport a	rs Cut at N at 5:12p i e occurre nsite and truction o routed boo s 304 and ounted ex sport to the one of the nd positio	HW = 1.31 (reference Morgans Point. s 1.29 ft MLLW d at ~5:15p measure safety briefing. perations: undaries of installed 305 onto barge for ccavator and marsh he ACBM installation e pulleys of the spud ning of the spud bar and the ACBM install	ed at 2.14 ft ACBM. transport ar buggy at the n site, the lif cable syste ge and exca	(MLLW). nd deployme e ACBM insta ting of one o m. The dam wator at the	allation si of the spu nage, how	te. ud barge's s vever, did no	puds ca ot prev	aused		
 0805 to 0930 – Onsite construction operations: Deployed ACBM form 304 and anchored it in place on the water bottom. During deployment operations, one of the spuds of SWE's spud barge became damaged to the point of being non-operational. GHD explained to AQ that the lifting of a supersack of sandbags by the bargemounted excavator caused the barge to roll while the barge's spuds were lowered, bending the spud at its contact point with the barge. With the bent spud non-operational, deployment of additional ACBM forms was suspended until spud repairs could be made. 												
0815 to 0900												
• GHD				ts of grouted ACBM h AQ project manag		eries panels	.					
			•	cs of installing the a		ncrete anch	ors for th	e perimete	r buoy	system.		

1020 to 1150 – Onsite construction operations:

• Delivery of concrete and pouring of the additional concrete anchors for the perimeter buoy system.



- 4 cubic yards of concrete was delivered in 2 truckloads by SRM Concrete.
- The anchor forms were filled using approximately 3 of the 4 cubic yards delivered. Approximately 1 cubic yard was not offloaded from the 2nd truck.

1200 to 1400– Onsite construction operations:

- Dive crew performed underwater cutting/removal of a portion of the damaged spud just below the waterline at the bottom of the barge.
- Sorbent boom detached and brought to shore.
- Spud barge and excavator transported to the adjacent San Jacinto River Fleet facility for repair of damaged spud and spud cable pulley.
- Marsh buggy staged near the shoreline of the western cell near the ACBM installation site.

1330 to 1920 - Onsite construction operations:

- Manlift delivered for repair of the spud cable pulley.
- Repair of damaged spud and spud cable pulley at San Jacinto River Fleet facility.

2030 – Project site closed and locked.

Summary of Progress on this Date:

- Deployed ACBM form 304 and anchored it in place on the water bottom.
- Poured additional concrete anchors for the perimeter buoy system.
- Made repairs to damaged spud and spud cable pulley.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Damian Dovin - 269-270-7063 - GHD Ben Bufkin - 985-226-0899 - CCI Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 – GHD Mitch Blanchard – 225-773-9631 – GHD Ashley Howard – EPA

Material	Units	Delivered (units)	Delivery Verification Method	Preceding Delivered Total	Total Delivered for Project
ESTS PERFORM	ED:	None			
HONE LOG:					



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Photo 2 – ACBM form 304 being lowered into the water for positioning and unrolling















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PROJECT	San Jacinto R	River Wast	e Pits ACBM Installat		CONTRA	CT NO.					
CONTRACTO					SUPERINTI		Damian	Dovin			
DAY OF WEE		Wednes	day, June 12, 2019				REPORT		018		
WEATHER		•	NE at 5-10 mph.		TEMPERA	TURF		H:92 de			
	ASS OF CONTE		•						-		
	CI, Underwate				lift, Bobcat			-			
Shallow Water Equipment (SWE), & AQ					long reach excavator, marsh buggy						
TIDE INFORMATION: Morgans Point, Barbours Cut, TX HEALTH					ND SAFETY	INFORMA	TION:				
Time: 1700	Time: 1700Height: 1.96 ftat High Tide					nisses on t	his date.				
CHRONOLOG		IT OF DAY	'S WORK:								
 Predi Prelir 0600 to 0615 0630 to 0930 Surve Comp Trans Trans Deplo 	cted high-tide ninary high tid – Personnel c – Onsite cons eyed current g pleted repairs sported and po sported ACBM	e at 4:54p i de occurre onsite and struction o routed bo to spud ba ositioned l form 305 poom arou	undaries of installed arge's spud cable pul parge-mounted exca and anchoring sand und the ACBM install	ACBM. lley at the S vator at the bags to the	an Jacinto R ACBM insta ACBM insta	allation sit	e.	yment.			
• Com	pleted underw	ater zippe	ering of the connection	on between	ACBM form	ns 303 and	304.				
0930 to 1030	– EPA, AQ, ar	nd GHD dis	cussed positon of ba	arge during	operation o	f the spud	S.				
	– Onsite cons byed ACBM fo		perations: d anchored it in plac	ce on the wa	ater bottom						
1330 – GHD r	notified AQ tha	at a stop-v	vork was called to di	scuss mana	gement of t	he spud ba	arge.				
WorkSorbeBarge		the water ached and cavator sta	brought to shore. aged at the shoreline	e south of th	ne ACBM ins	tallation s	te near th	e Weste	rn Berm.		



Summary of Progress on this Date:

- Completed repairs to spud barge's spud cable pulley.
- Completed underwater zippering of the connection between ACBM forms 303 and 304.
- Deployed ACBM form 305 and anchored it in place on the water bottom.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Damian Dovin - 269-270-7063 - GHD Ben Bufkin - 985-226-0899 - CCI Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 – GHD Ashley Howard – EPA

Material	Units	Delivered (units)	Delivery Verification Method	Preceding Delivered Total	Total Delivered for Project

TESTS PERFORMED:	None	
PHONE LOG:		
SITE PHOTOS/VIDEOS T	AKEN: (attached below)	FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:
5 photos (descriptions p	rovided underneath photo)	None















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PROJECT	San Jacinto F	River Wast	e Pits ACBM Installat	tion		CONTRA	CT NO.			
CONTRACTO	R GHD				SUPERINTI	INDENT	Damian	Dovin		
DAY OF WEE	K & DATE:	Thursday	y, June 13, 2019					NO.	019	
WEATHER	Sunny, wind	s NNE at 5	-10 mph.		TEMPERA	TURE	L:72	H:91 de	egrees F	
NUMBER/CL	ASS OF CONT	RACTOR'S	PERSONNEL:	MAJOR E	QUIPMENT	ON JOB (Si	ze/capaci	ty and h	ours):	
	CI, Underwate	•		-	-		der, Cat	bobcat, Cat		
Shallow Wate	long reach excavator, marsh buggy									
TIDE INFORM	TIDE INFORMATION: Morgans Point, Barbours Cut, TX					INFORMA	TION:			
Time: 0712	Time: 0712Height: 1.68 ftat High Tide				nts or near n	nisses on t	his date.			
CHRONOLOG		NT OF DAY	'S WORK:							
 Predi Preli 0600 to 0615 0630 to 0730 Setup Stage Trans Deple 	 Preliminary high tide occurred at ~7:15a measured at 1.68 ft (MLLW). 0600 to 0615 – Personnel onsite and safety briefing. 0630 to 0730 – Onsite construction operations: 									
0730 to 1155 • Deliv	– Onsite cons ery of concret	struction c te and grou ards of cor	perations: uting of ACBM forms Icrete was delivered			Concrete.				
			the ACBM installatio	on work area	а.					
	– Onsite cons oyed ACBM fo		perations: nd 402 and anchored	d them in pl	lace on the v	vater bott	om.			
	•	te and gro	perations: uting of ACBM forms Icrete was delivered			Concrete.				

1945 to 2005 – Onsite construction operations:



- Work crews exited the water.
- Sorbent boom detached and brought to shore.
- Silt curtain detached and brought to shore.
- Barge mounted excavator staged at the shoreline south of the ACBM installation site near the Western Berm.

2020 – Project site closed and locked.

Summary of Progress on this Date:

- Deployed ACBM forms 401 and 402 and anchored them in place on the water bottom.
- Completed grouting of ACBM form 303; gouted ACBM forms 304, 305, and 401; partially grouted ACBM form 402.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Damian Dovin - 269-270-7063 - GHD Ben Bufkin - 985-226-0899 - CCI Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 – GHD Ashley Howard – EPA Nick Gannon – EPA

Material	Units	Delivered (units)	Delivery Verification Method		Preceding Delivered Total	Total Delivered for Project		
ESTS PERFORM	ED: No	ne						
PHONE LOG:								
SITE PHOTOS/VI	ITE PHOTOS/VIDEOS TAKEN: (attached below)			FORCE ACCOUNT WORK/ CHANGES ENCOUNTERED:				
photos (descriptions provided underneath photo)				None				















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PROJECT	San Jacinto R	iver Was	te Pits ACBM Installa	tion		CONTRA	ACT NO.			
CONTRACTO	R GHD				SUPERINTEI	NDENT	Damian	Dovin		
DAY OF WEE	K & DATE:	Friday,	June 14, 2019				REPORT N	ю.	020	
WEATHER	Sunny, winds	s S at 5-10) mph.		TEMPERAT	URE	L:77	H:90 d	legrees F	
NUMBER/CL	ASS OF CONTR	RACTOR'S	S PERSONNEL:	MAJOR EQUIPMENT ON JOB (Size/capacity and hours):						
-	CI, Underwate		e ,		-			ler, Ca	t bobcat, Cat	
Shallow Wate	er Equipment ((SWE) <i>,</i> &	AQ	long reach	excavator, n	narsh bu	ggy			
TIDE INFORM	ATION: Morg	ans Poin	t, Barbours Cut, TX	HEALTH A	ND SAFETY II	NFORM/	ATION:			
Time: 0906	Height:	at High Tide	No inciden	ts or near m	isses on	this date.				
CHRUNULUG	ICAL ACCOUN	IT OF DA	Y S WORK:							
NOAA Tide St	ation data ind	icates M	HHW = 1.31 (referend	e to MLLW	= 0).					
Tidal data based on Barbours Cut at Morgans Point.										
	 Predicted high-tide at 9:00a is 1.44 ft MLLW 									
 Prelir 	ninary high tio	le occurr	ed at ~9:00a measure	ed at 1.97 ft	(MLLW).					
0600 to 0615	– Personnel o	onsite and	d safety briefing.							
0630 to 0730	– Onsite cons	truction	operations:							
• Stage	ed ACBM form	s at the s	horeline near the inst	tallation site	in preparati	on for de	eployment.			
			uipment westward, r					СВМ ра	anels.	
	• •		barge-mounted exca				.e.			
 Deplo 	oyed sorbent k	boom and	d silt curtain around t	he ACBM ins	stallation wo	rk area.				
0800 to 1600	– Onsite cons	truction	operations:							
			404, 405, and 406 an	d anchored	them in place	e on the	water bott	om.		
	•		not able to supply cor		•				M forms	
			nored in place for gro	uting on Mo	nday (6/17),	when de	elivery of co	oncrete	e is	
	scheduled	to resum	e.							
0915 – Onsite	e construction	operatio	ns:							
• Surve	eyed grouted b	oundarie	es of installed ACBM	panels.						
1320 to 1610 – Onsite constrction operations:										
 Received riprap for armoring the southern edge of the installed ACBM. 										
1500 to 1545	– Terry Andre	ews with	TCEQ visited the site,	met with GI	HD and AQ, a	nd obse	rved onsite	activi	ties.	

1600 to 1640 – Onsite construction operations:

- Work crews exited the water.
- Silt curtain and sorbent boom detached and brought to shore.



• Barge mounted excavator staged at the shoreline south of the ACBM installation site near the Western Berm.

1710 – Project site closed and locked.

Summary of Progress on this Date:

- Deployed ACBM forms 403, 404, 405, and 406 and anchored them in place on the water bottom.
- Began receiving riprap for armoring the southern edge of the installed ACBM.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Damian Dovin - 269-270-7063 - GHD Ben Bufkin - 985-226-0899 - CCI Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 – GHD Terry Andrews - 337-764-5802 – TCEQ

Material	Units	Delivered (units)	Delivery Verification Method	Preceding Delivered Total	Total Delivered for Project
Riprap			Truck		
ESTS PERFORM	ED: N	one			
HONE LOG:					
ITE PHOTOS/VI	DEOS TAK	EN: (attached belo	w) <u>FORCE ACCO</u>	UNT WORK/ CHANG	GES ENCOUNTERED:
ophotos (descriu	otions prov	vided underneath p	hoto) None		









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PROJECT	San	Jacinto R	River Waste	e Pits ACBM Installat	ion		CONTRA	CT NO.		
CONTRACTO	R	GHD				SUPERINTI	INDENT	Damian	Do	vin
DAY OF WEE	K & C	DATE:	Saturday	, June 15, 2019				REPORT N	10.	021
WEATHER	Part	tly cloudy	, winds S a	it 10-20 mph.		TEMPERA	TURE	L:80	H:92	2 degrees F
NUMBER/CL	ASS C	OF CONTR	RACTOR'S	PERSONNEL:	MAJOR E	QUIPMENT	ON JOB (S	ize/capaci	ty ai	nd hours):
7 – GHD, CCI	, SWI	E, & AQ			Small fork	lift, Bobcat	T740, Cat	920M load	der,	Cat bobcat, Cat
					long reach	n excavator,	marsh bug	ggy		
TIDE INFORMATION: Morgans Point, Barbours Cut, TX				HEALTH AND SAFETY INFORMATION:						
Time: 1030		Height:	2.54 ft	at High Tide	No incide	nts or near n	nisses on t	this date.		
CHRONOLOG	ICΔI	Δ	ΙΤ ΟΕ ΠΔΥ'							

NOAA Tide Station data indicates MHHW = 1.31 (reference to MLLW = 0).

Tidal data based on Barbours Cut at Morgans Point.

- Predicted high-tide at 10:30a is 1.56 ft MLLW
- Preliminary high tide occurred at 10:30a measured at 2.54 ft (MLLW).

0700 to 0740 – Personnel onsite, safety briefing, and outline of the day's work plan.

- ACBM installation activities are on hold until Monday 6/17, when SRM concrete will resume supplying concrete grout to the site. The dive crew and most CCI and SWE personnel were offsite for the day.
- Select personnel from GHD, CCI, and SWE were onsite for work items related to:
 - Riprap armoring of the southern edge of installed ACBM.
 - o Perimeter buoy realignment and additional anchor installation.

0740 to 0800 – GHD and AQ discussed details of the gradation, stakeout, and placement of the riprap armor stone along the southern edge of installed ACBM.

0800 to 0845 – Onsite construction operations:

• Stakeout of limits for riprap placement along the southern edge of installed ACBM.

0810 to 1140 – Onsite construction operations:

• Received and stockpiled riprap for armoring the southern edge of the installed ACBM.

0825 – Onsite construction operations:

• Deployed sorbent boom around the riprap placement work area.

0845 to 0905 – GHD and AQ discussed details of the perimeter buoy anchor installations.

0910 – Onsite construction operations:

• Deployed silt curtain around the riprap placement work area.

0915 to 1100 – Onsite construction operations:

• Surveyed existing perimeter buoy anchor locations on the east side of the Central Berm.



- Began staging new/additional buoy anchors near the shoreline for barge deployment.
- Began preparing cabling for the new/additional buoy anchors.

1100 to 1110 – Onsite construction operations:

• GHD attempted replacement of the batteries for the regulatory buoy lights. Upon inspection by GHD and AQ, removal of the light fixture to access the battery compartment required a tool that was not on site. Procurement of the tool will be attempted prior to Monday 6/17.

1100 to 1145 – Onsite construction operations:

• Placement of riprap armoring along the southern edge of ACBM panel 101.

1110 to 1145 – GHD and AQ discussed details of the perimeter buoy realignment and anchor installations on the east side of the Central Berm, in light of the morning's survey results.

1145 to 1215 – Onsite construction operations:

- Marsh buggy staged at the shoreline near the Central Berm and the ACBM installation site.
- Silt curtain and sorbent boom detached and brought to shore.
- GHD work boat brought out of the water and staged in the stockpile area at the front of the site.

1230 – Project site closed and locked.

Summary of Progress on this Date:

- Performed stakeout of limits for riprap placement along the southern edge of installed ACBM.
- Continued receiving and stockpiling riprap for ACBM armoring.
- Placed riprap armoring along the southern termination edge of ACBM panel 101.
- Made preparations for perimeter buoy realignment and additional anchor installation on the east side of the Central Berm.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Damian Dovin - 269-270-7063 - GHD Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 – GHD

Material	Units	Delivered (units)	Delivery Verification Method	Preceding Delivered Total	Total Delivered for Project
Riprap			Truck		
ESTS PERFORM	ED: N	one			







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PROJECT	San	Jacinto R	iver Wast	e Pits ACBM Installat	ion		CONTRA	CT NO.		
CONTRACTO	R	GHD				SUPERINTE	NDENT	Damian	Dov	in
DAY OF WEE	K & D	DATE:	Monday	, June 17, 2019				REPORT	10.	022
WEATHER	Vari	able clou	ds, winds	S at 5-10 mph.		TEMPERA	TURE	L:76	H:87	degrees F
NUMBER/CL	ASS C	OF CONTR	ACTOR'S	PERSONNEL:	MAJOR E	QUIPMENT C	ON JOB (Si	ze/capaci ⁻	ty ar	d hours):
25 – GHD, CO	CI, Un	Iderwate	Technolo	ogy Services,	Small fork	lift, Bobcat	T740, Cat 9	920M load	der, (Cat bobcat, Cat
Shallow Wate	er Equ	uipment (SWE), & A	AQ	long reach	n excavator, i	marsh bug	gy		
TIDE INFORM	1ATIC	N: Morg	ans Point	, Barbours Cut, TX	HEALTH A	ND SAFETY	NFORMA	TION:		
Time: 1548		Height:	2.59 ft	at High Tide	No incide	nts or near m	nisses on t	his date.		
CHRONOLOG	ICAL	ACCOUN	T OF DAY	<u>'S WORK:</u>						
Tidal data bas • Predi	sed o cted	n Barbou high-tide	rs Cut at N at 12:30p	IHW = 1.31 (referenc Morgans Point. 9 is 1.64 ft MLLW d at ~4:00p measure		·				

0600 to 0615 – Personnel onsite and safety briefing.

0630 to 0845 – Onsite construction operations:

- Staked-out placement locations for ACBM forms 407 to 411.
- Staged ACBM forms 407 to 411 near the shoreline for deployment.
- Positioned barge-mounted excavator and marsh buggy at the ACBM installation site.
- Deployed sorbent boom and silt curtain around the ACBM installation work area.
- Setup grout pump and hoses in preparation for concrete delivery.

0845 to 1815 – Onsite construction operations:

• Deployed ACBM forms 407 to 411 and anchored them in place on the water bottom.

0900 to 1745 – Onsite construction operations:

- Delivery of concrete and grouting of ACBM forms 402 to 409.
 - o 189 cubic yards of concrete was delivered in 21 truckloads by SRM Concrete.
 - Three trucks were rejected upon visual observation of coarse aggregate in the mix as it was being offloaded from the truck into the grout pump. The trucks were sent back and the concrete plant notified.

0945 to 1430 – Onsite construction operations:

• Received and stockpiled riprap for armoring the southern edge of the installed ACBM.

1630 to 1720 – Onsite construction operations:

• Replaced the batteries for the lights of the six regulatory buoys located on the east side of the Central Berm.



1815 to 1830 – Onsite construction operations:

- Work crews exited the water.
- Silt curtain and sorbent boom detached and brought to shore.
- Barge mounted excavator staged at the shoreline south of the ACBM installation site near the Western Berm.
- Marsh buggy staged near the shoreline in the western cell, near the ACBM installation site.

1905 – Project site closed and locked.

Summary of Progress on this Date:

- Deployed ACBM forms 407 to 411 and anchored them in place on the water bottom.
- Finished grouting of ACBM form 402; grouted ACBM forms 403 to 408; partially grouted ACBM form 409.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Damian Dovin - 269-270-7063 - GHD Ben Bufkin - 985-226-0899 - CCI Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 – GHD

Material	Units	Delivered (units)	Delivery Verification Method	Preceding Delivered Total	Total Delivered for Project
Riprap			Truck		
			1	1	
TESTS PERFORMED: None					
HONE LOG:					
ITE PHOTOS/VI	DEOS TAKE	<u>N:</u> (attached belo	w) <u>FORCE ACCO</u>	UNT WORK/ CHANG	GES ENCOUNTERED:


















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PROJECT	San Jacinto River Waste Pits ACBM Installation						CONTRACT NO.			
CONTRACTO	CTOR GHD					SUPERINTE	RINTENDENT Damian Dovin			vin
DAY OF WEEK & DATE: Tuesday, June 18, 2019					REPORT NO. 02			023		
WEATHER	THER Sunny, winds SW at 5-10 mph.					TEMPERA	TEMPERATURE L:76 H:93 degre			3 degrees F
NUMBER/CL	ASS C	OF CONTR	RACTOR'S	PERSONNEL:	MAJOR EC		ON JOB (S	ize/capaci	ty ar	nd hours):
20 – GHD, CO	CI, Ur	Iderwate	r Technolc	gy Services,	Small fork	lift, Bobcat	T740, Cat	920M load	der,	Cat bobcat, Cat
Shallow Wate	er Equ	uipment ((SWE), & A	Q	long reach excavator, marsh buggy					
		•	. ,.		Ū	-				
TIDE INFORMATION: Morgans Point, Barbours Cut, TX					HEALTH AND SAFETY INFORMATION:					
Time: 1412		Height:	2.16 ft	at High Tide	No incider	nts or near n	nisses on t	this date.		

CHRONOLOGICAL ACCOUNT OF DAY'S WORK:

NOAA Tide Station data indicates MHHW = 1.31 (reference to MLLW = 0). Tidal data based on Barbours Cut at Morgans Point.

Tual uata based off barbours cut at Morgans Point.

- Predicted high-tide at 1:30p is 1.61 ft MLLW
- Preliminary high tide occurred at ~2:00p measured at 2.16 ft (MLLW).

0600 to 0615 – Personnel onsite and safety briefing.

0630 to 0830 - Onsite construction operations:

- Positioned barge-mounted excavator and marsh buggy at the ACBM installation site.
- Deployed the first of two additional ACBM forms required to cover a gap between installed ACBM panels 209, 210, and 301.
- Deployed sorbent boom and silt curtain around the ACBM installation work area.
- Adjusted the positions of deployed ACBM forms 410 and 411 in preparation for grouting.
- Setup grout pump and hoses in preparation for concrete delivery.

0835 to 1345 – Onsite construction operations:

- Delivery of concrete and grouting of ACBM forms 409, 410, 411, and two additional forms required to cover a gap between installed ACBM panels 209, 210, and 301.
 - o 117 cubic yards of concrete was delivered in 13 truckloads by SRM Concrete.
 - The grouting operations for the aforementioned ACBM forms were sequenced as follows:
 - Grouting of the first additional ACBM form overlaying panels 209, 210, and 301 was performed first.
 - Grouting operations then moved to ACBM forms 409, 410, and 411, while the second additional ACBM form was deployed over the gap between panels 209, 210, and 301.
 - Once the grouting of ACBM form 411 was completed, the second additional ACBM form overlaying panels 209, 210, and 301 was then grouted.

1015 to 1240 – Onsite construction operations:

• Realigned the portion of the perimeter buoy system on the east side of the Central Berm.



1400 to 1515 – Onsite construction operations:

- Work crews exited the water.
- Cleaned and disassembled grout pump and hoses and transferred them to the staging area at front of site.
- Silt curtain and sorbent boom detached and brought to shore.
- Barge mounted excavator staged at the shoreline south of the ACBM installation site near the Western Berm.

1530 – CCI personnel and dive crew departed the site for the day.

1530 to 1700 – Onsite construction operations:

• Removed board mats from the grout pumping pad and staged them for pickup.

1725 – Project site closed and locked.

Summary of Progress on this Date:

- Deployed two additional ACBM forms required to cover a gap between installed ACBM panels 209, 210, and 301.
- Completed grouting of ACBM form 409; grouted ACBM forms 409, 410, and the two additional forms required to cover the gap between installed ACBM panels 209, 210, and 301.
- Realigned the portion of the perimeter buoy system on the east side of the Central Berm.
- Removed board mats from the grout pumping pad and staged them for pickup.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Damian Dovin - 269-270-7063 - GHD Ben Bufkin - 985-226-0899 - CCI Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 – GHD

Material Delivery Summary as of this Date:

Material	Delivered Units (units)		Delivery Verification Method		Preceding Delivered Total	Total Delivered for Project
TESTS PERFORME	D: N	one				
PHONE LOG:						
SITE PHOTOS/VID	EOS TAK	EN: (attached belo	w)	FORCE ACCOU	NT WORK/ CHANG	GES ENCOUNTERED:
6 photos (descript	ions prov	vided underneath pl	noto)	None		











Photo 3 – Deployment of additional ACBM panel over gap between panels 209, 210, and 301











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	1						1		1		
PROJECT	San	Jacinto R	liver Wast	e Pits ACBM Installat	tion		CONTRA	ACT NO.			
CONTRACTO	R	GHD				SUPERINTE	NDENT	Damian	Dovi	n	
DAY OF WEE	K & D	ATE:	Wednes	day, June 19, 2019		REPORT NO.				024	
WEATHER	Suni	ny, winds	s S at 10-2	0 mph.		TEMPERA	TURE	L:79	H:95	degrees F	
NUMBER/CL	ASS O	F CONTR	RACTOR'S	PERSONNEL:	MAJOR EC		ON JOB (S	Size/capaci	ty and	d hours):	
15 – GHD, CO	CL Un	derwate	r Technol	ogy Services (UTS),	Small fork lift, Bobcat T740, Cat 920M loader, Cat bobcat, Cat						
Shallow Water Equipment (SWE), & AQ					long reach excavator, marsh buggy						
TIDE INFORMATION: Morgans Point, Barbours Cut, TX HEALTH AND SAFETY INFORMATION:											
Time: 1424Height: 2.06 ftat High TideNo incidents or near misses on this date.											
CHRONOLOG	CHRONOLOGICAL ACCOUNT OF DAY'S WORK:										
Tidal data ba • Predi	sed o icted	n Barbou high-tide	rs Cut at at 2:30p	HW = 1.31 (referenc Morgans Point. is 1.58 ft MLLW ed at ~2:30p measure		·					
0600 to 0615	– Pei	rsonnel o	onsite and	safety briefing.							
 0630 to 0705 – Onsite construction operations: Demobilization of dive shack and equipment. UTS departed the site at approximately 0705. 											
0705 to 0745 • Colle				pperations: from the ACBM inst	allation area	a and transf	erred to s	taging area	a at fr	ont of site.	
	sporte	ed spud b	barge and	operations: barge-mounted exca udding components (

• Disassembled spud barge spudding components (spuds, spud guides, spud cabling system). Staged spud barge and long-reach excavator at the SJRF facility for demobilization.

0745 to 1215 – Onsite construction operations:

- Deployed silt curtain around the riprap armoring work area.
- Placed riprap armoring along the southern edge of installed ACBM.
- At the completion of riprap placement, the marsh buggy was staged at the southern end of the Central Berm for demobilization. SWE personnel departed the site at approximately 1215.

1030 to 1430 – Onsite construction operations:

- Installed additional anchors for the realigned perimeter buoy system.
 - On the east side of the Central Berm, the anchors were installed along and connected to the realigned line of buoys.
 - On the west side of the Central Berm, the realigned buoys have not yet been installed. The anchors were deployed at their target locations, with floats attached to the tops of the anchor cables. Once the



realigned buoys are installed, the floating cables of the deployed anchors will be connected to the buoy line.

1030 to 1230 – Onsite construction operations:

• Morrison Surveying arrived onsite, setup instruments, and prepared work boat for post-construction hydrographic surveying of the ACBM installation area.

1100 to 1200 – Onsite construction operations:

• Surveyed boundaries of riprap armoring along the southern edge of installed ACBM.

1140 to 1215 – Onsite construction operations:

• Loaded board mats onto flatbed truck for removal from site (first load).

1225 to 1545 – Onsite construction operations:

• Post-construction hydrographic surveying of the ACBM installation area by Morrison Surveying.

1245 to 1320 – Onsite construction operations:

• Loaded board mats onto flatbed truck for removal from site (second load).

1325 to 1350 – Onsite construction operations:

• Loaded board mats onto flatbed truck for removal from site (third load).

1430 – Onsite construction operations:

- Pickup of port-o-lets and handwash stations by Waste Management.
- Demobilization of CCI personnel and equipment.

1545 to 1630 – Onsite construction operations:

• Morrison Surveying removed work boat from the water, took down their instruments, and departed the site.

1710 to 1740 – Onsite construction operations:

• Removed silt curtain from the water and staged it for demobilization.

1745 – Project site closed and locked.

Summary of Progress on this Date:

- Completed placement of riprap armoring along the southern edge of installed ACBM.
- Installed additional anchors for the realigned perimeter buoy system.
- Performed post-construction hydrographic surveying of the ACBM installation area.
- Demobilized UTS dive shack and equipment from the site.
- Demobilized CCI equipment and personnel from the site.
- Demobilized board mats from the grout pumping pad from the site.
- Prepared additional equipment and materials for demobilization.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Damian Dovin - 269-270-7063 - GHD



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	Delivered Delivery			Verification	Preceding	Total Delivered for
Material	Units	(units)	Delivery Verification Method		Delivered Total	Project
ESTS PERFORM		one				
		one				
HONE LOG:						
				1		
ITE PHOTOS/VI	DEOS TAK	<u>EN:</u> (attached belo	ow)	FORCE ACCOL	JNT WORK/ CHANG	GES ENCOUNTERED:
photos (descrip	otions prov	/ided underneath p	hoto)	None		
				¥		
				¥		
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				-		
				*	06 19 201	













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PROJECT	San	Jacinto R	liver Wast	e Pits ACBM Installat	ion		CONTRA	ACT NO.			
CONTRACTO	R	GHD				SUPERINT	ENDENT	Damian	Dovir	n	
DAY OF WEE	к& [DATE:	Thursda	y, June 20, 2019					10.	025	
WEATHER	Мо	stly cloud	y, winds S	5 at 10-20 mph.		TEMPERATURE L:84 H:91 degrees F					
NUMBER/CL	ASS (OF CONTR	RACTOR'S	PERSONNEL:	MAJOR EQUIPMENT ON JOB (Size/capacity and hours):						
6 – GHD, Sha	allow	Water Ec	quipment	(SWE), & AQ		-	-		der, Ca	at bobcat, Cat	
					long reach	excavator,	marsh bu	ggy			
TIDE INFORM	TIDE INFORMATION: Morgans Point, Barbours Cut, TX HEALTH AND SAFETY INFORMATION:										
Time: 1706Height: 2.06 ftat High TideNo incidents or near misses on this date.											
	CHRONOLOGICAL ACCOUNT OF DAY'S WORK:										
NOAA Tide St	tatio	n data ind	licates MH	HW = 1.31 (referenc	e to MLLW	= 0).					
				Morgans Point.							
		0	•	is 1.54 ft MLLW		(
• Prelir	mina	ry high tic	le occurre	ed at ~5:00p measure	ed at 2.06 ft	(MLLW).					
0600 to 0615	– Pe	ersonnel o	onsite.								
	_										
0630 to 0730) – De	emobilizat	tion of SW	/E's marsh buggy from	n the site.						
0630 to 1130) – M	orrison Sı	urveying p	erformed post-const	ruction top	ographic su	rveying of	the ACBM	insta	llation area.	
	_										
0700 to 1030) – De	emobilizat	tion of SW	/E's spud barge and le	ong-reach e	excavator fro	om the Sa	n Jacinto R	iver Fl	leet facility.	
0750 – Demo	biliza	ation of ye	ellow rollo	off box from the site.							
0000 Dame		ation of C		, boot from the site							
0800 – Demo	DUIIZ	ation of S	vve s crew	v boat from the site.							
0845 – Demo	biliza	ation of sr	mall fork l	ift from the site.							

0930 – Onsite construction operations:

- Demobilization of black rolloff box from the site.
- Smoothing/backdragging of heavily trafficked northeastern portion of the staging area at the front of the site.

1015 to 1120 – Loaded board mats onto flatbed truck for removal from site.

1115 to 1140 – Demobilization of small white barge from the site.

1145 to 1230 – Bundling of silt curtain for transport offsite.

1415 – Demobilization of Cat loader.



1435 to 1745 – Onsite construction operations:

- Installed the portion of realigned perimeter buoys on the west side of the Central Berm.
- Surveyed the locations of the realigned perimeter buoys.

1745 to 1900 – Onsite construction operations:

- Removed workboat from the water.
- Loaded bundled silt curtain segments onto trailer for transport offsite.
- Staged manlift in the parking area outside of the main gate for pickup.

1915 – Project site closed and locked.

Summary of Progress on this Date:

- Installed the portion of realigned perimeter buoys on the west side of the Central Berm.
- Performed post-construction topographic surveying of the ACBM installation area.
- Demobilized the following items from the site: SWE's marsh buggy, spud barge, long-reach excavator, and crew boat; rolloff boxes; small fork lift; remaining board mats; small white barge; and Cat loader.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Ryan Proulx - 906-370-1925 - GHD Clint Guillory - 337-764-5802 – GHD

Material Delivery Summary as of this Date:

Material	Units	Delivered (units)	-	Verification ethod	Preceding Delivered Total	Total Delivered for Project
ESTS PERFORM	ED:	lone				
HONE LOG:						
ITE PHOTOS/VI	DEOS TAK	<u>(EN:</u> (attached belo	ow)	FORCE ACCOU	UNT WORK/ CHANG	GES ENCOUNTERED:
photos (descrip	otions pro	vided underneath p	hoto)	None		



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• AQ to coordinate repair of the fence with National Fence.

1600 – Demobilized GHD work boat from the site.



1810 – Demobilized GHD equipment trailer and miscellaneous materials from the site.

1910 – Demobilized GHD Bobcat and utility trailer from the site.

1910 – Project site closed and locked.

Summary of Progress on this Date:

- Installed a temporary wire-mesh patch over the hole in the security fence.
- Performed miscellaneous final housekeeping tasks.
- Demobilized the following items from the site: manlift, work boat, Bobcat, equipment trailer, utility trailer, and miscellaneous materials.

Persons On-Site on this Date:

Josef Hoffmann - 225-802-4914 – AQ Clint Guillory - 337-764-5802 – GHD Jeremy Rast - 936-402-6262 – GHD

Material Delivery Summary as of this Date:

Material	Units	Delivered (units)	Delivery Verification Method	Preceding Delivered Total	Total Delivered for Project
TESTS PERFORM	ED: N	one			
PHONE LOG:					
SITE PHOTOS/VI	DEOS TAKI	EN: (attached belo	w) <u>FORCE ACCO</u>	UNT WORK/ CHANG	GES ENCOUNTERED:
5 photos (descrip	otions prov	ided underneath p	hoto) None		



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