Appendix B

Pre-Construction Conference PPT
and
Meeting Minutes

BA-171 Caminada Headland Back Barrier Marsh Creation

Pre-Construction Conference

June 9, 2020

Coastal Wetland Planning, Protection, and Restoration Act
PPL 23

committed to **our coast**

Project Overview

- The Caminada Headland Back Barrier Marsh Creation Project (BA-0171) (“Project”) is funded by the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA).
- The United States Environmental Protection Agency (EPA) is the designated Federal Sponsor or this Project.
- The project will create marsh immediately landward of the newly created Caminada Headland Beach and Dune Increments 1 and 2 projects (BA-0045 and BA-0143).
- This project will assist CPRA in meeting the goals as delineated in the 2017 State’s Master Plan for a Sustainable Coast.

Project Purpose

- Protect and preserve structural integrity of the Caminada Headland:
  - Protect interior marsh and chenier ridge habitats
  - Provide habitat for essential fish and wildlife species.
  - Protect threatened and endangered species.
  - Create tidal marsh habitat in open water areas and restore existing marsh areas without disrupting the natural hydrologic regime.
  - Provide suitable platform for island migration and rollover.
  - Protect State's investment in CAM I and CAM II.

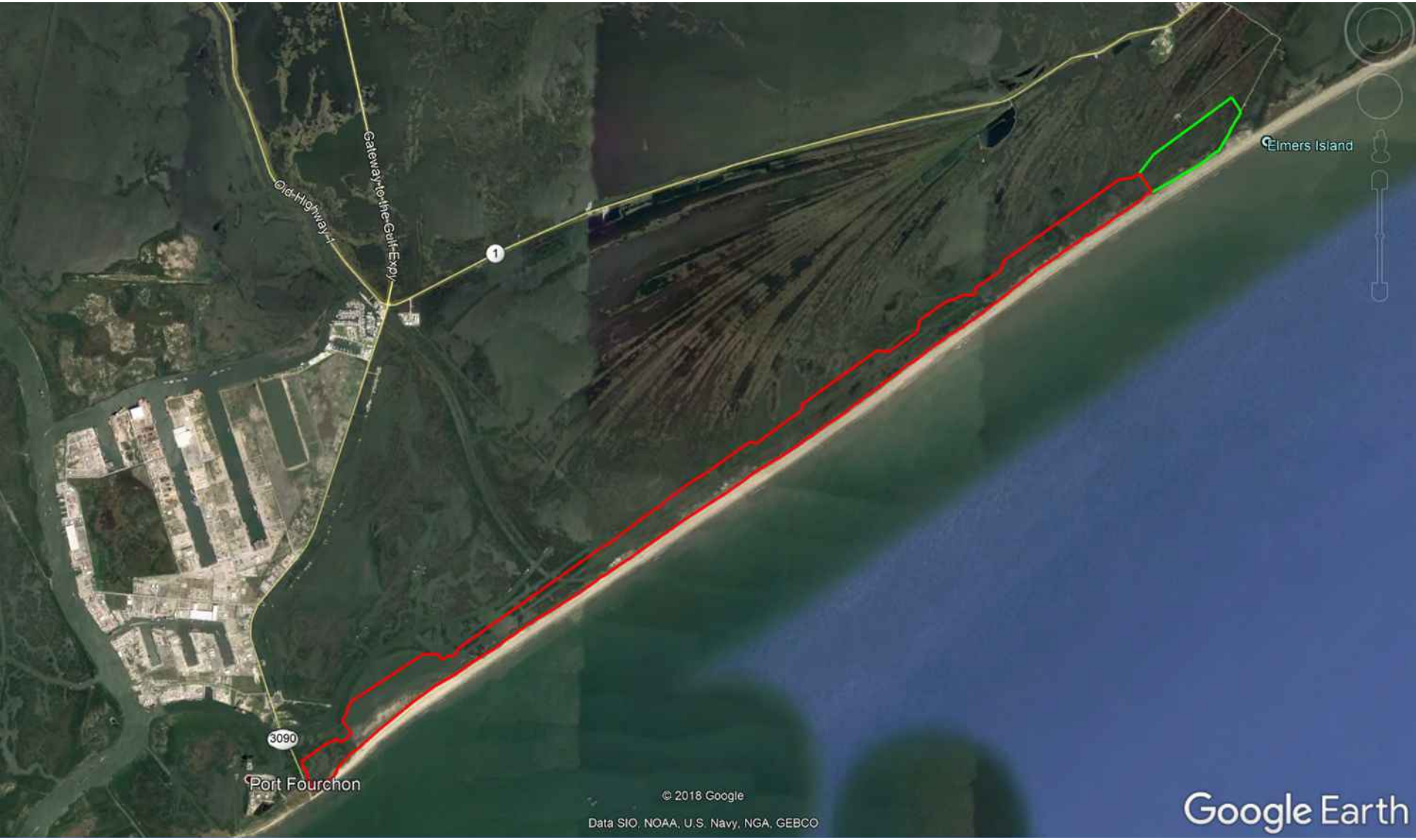
- Maintain and restore integrity of Louisiana coastline.

- Incidental benefits include protection of Port Fourchon.

Project Elements

- The project consists of a single marsh creation area adjacent to the previously constructed Caminada Headland Beach and Dune projects (BA-0045 and BA-0143).
- Due to the proximity of this project to those previously constructed projects, the area will be contained by constructing approximately 44,000 LF of dikes along the western, northern and eastern limits of the fill area.
- Approximately 2,500,000 CY's of dredged marsh fill will be transported to the area via slurry pipeline from two (2) borrow areas located offshore..
- Approximately 1000 Ac's of marsh will be created, constructed in 4 marsh fill increments progressing from west to east.

Project Location



Project Team

CPRA

- Project Manager: Renee Bennett, P.M.P.
  Brad Miller
- Project Engineer: Shannon Haynes, P.E.
- Construction Manager Engineer: Adam Ledet, P.E.

CPRA's Project Representatives

- Sr. Project Manager (Sigma): Bryan Harmon, P.E.
- Construction Manager (Sigma): Josh Renard, P.E.
- Geotechnical Manager (S&ME): Greg Mattson II, P.E.

EPA

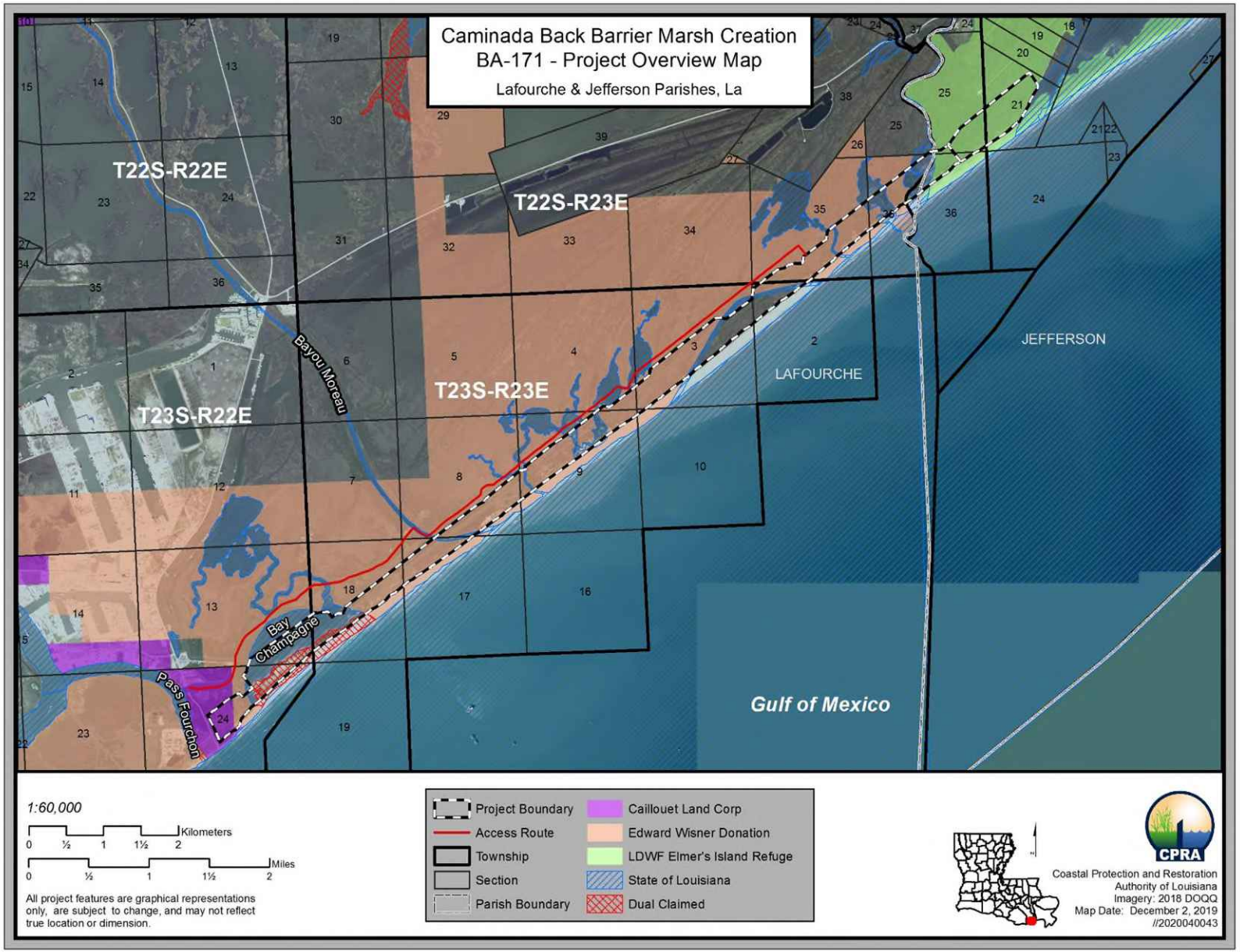
- Project Manager: Patricia Taylor, Ph.D., P.E.

Contractor

Great Lakes Dredge & Dock Company, Inc.

- Project Manager
- Superintendent

Landowners and Land Rights – Appendix D



ADMINISTRATIVE ACTION, GENERAL PROVISIONS AND SPECIAL PROVISIONS

The following Slides have been developed to provided a brief overview of the Contract Provisions to assist in providing a Mutual Understanding of the Work to be performed

Administrative Actions-Award

CONSTRUCTION AGREEMENT

- Executed and Recorded
- Payment and Performance Bonds Provided
- Insurance Certificates Provided

SUBCONTRACTORS(GP-19)

- Subcontractor List has been provided:
  - Surveying: Hydro Terra
  - Dike Construction: Wilco Marsh Buggies
  - Bird Abatement: Norman Wildlife Consulting
  - Aerial Photograph: Gulf Coast Air Photo

NOTICE TO PROCEED (GP-7)

- Start Date: April 20, 2020
- Contract Time : 548 Calendar Days (includes estimated weather days)
- Construction Completion Date : October 20,2021
- Amount of Contract: $ 30,088,172.00 with CO #01
- Amount of Liquidated Damages: $5,470.00 per day

General Provisions and Special Provisions

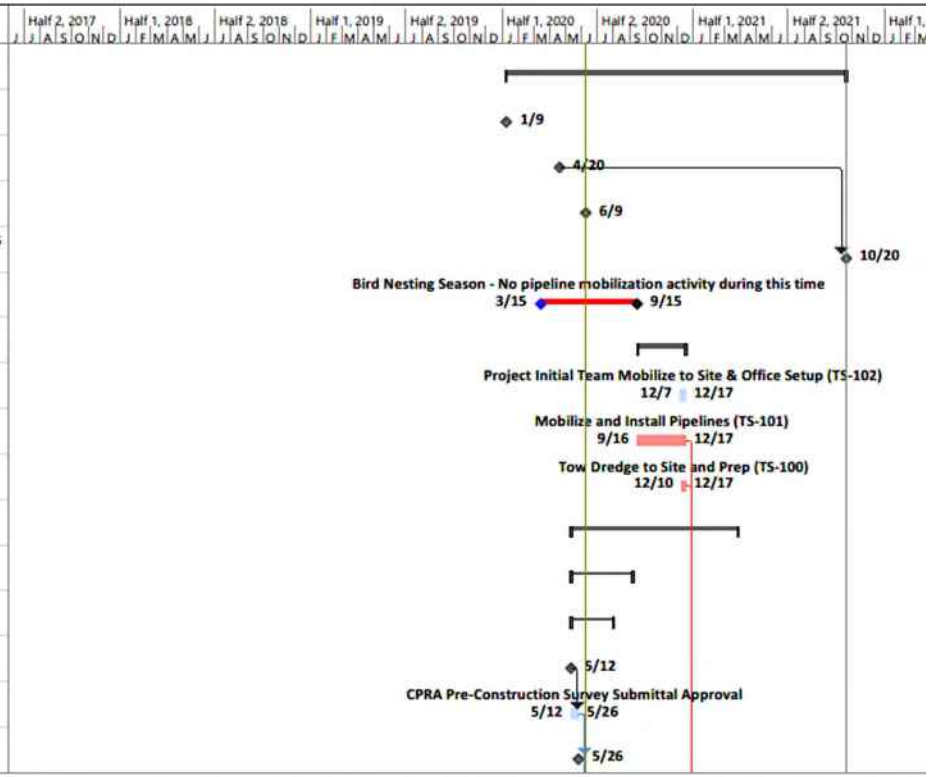
WORK PLAN (SP-7, GP-8, and GP-41)

- Progress Schedule and Daily Reports (GP-9, GP-10);
- Hurricane and Severe Storm Plans (GP-11);
- Health and Safety Plan (GP-12);
- Dredge data sheet(s) (Appendix J);
- Equipment data sheets (Appendix K);
- Layout and schedule of all work (Surveys, equipment routes, pipeline alignments, staging areas, etc.);
- Dike breach repair procedures and communications protocol.

Contractor's Schedule 1 of 6

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)
GLDD Progress Schedule
REVISION 1

ID	Task Name	Duration	Start	Finish	Predecessors
1	**Key Dates and Milestones**	**650 days**	**Thu 1/9/20**	**Wed 10/20/21**	
2	Bid Date	0 days	Thu 1/9/20	Thu 1/9/20	
3	NTP	0 days	Mon 4/20/20	Mon 4/20/20	
4	Estimated Pre-Construction Conference	0 days	Tue 6/9/20	Tue 6/9/20	
5	Required Completion	0 days	Wed 10/20/21	Wed 10/20/21	3FS+548 days
6	Bird Nesting Season - No pipeline mobilization activity during this time	184 days	Sun 3/15/20	Tue 9/15/20	
7	**Mobilization (TS-100, TS-101 & TS-102)**	**92 days**	**Wed 9/16/20**	**Thu 12/17/20**	
8	Project Initial Team Mobilize to Site & Office Setup (TS-102)	10 days	Mon 12/7/20	Thu 12/17/20	
9	Mobilize and Install Pipelines (TS-101)	92 days	Wed 9/16/20	Thu 12/17/20	
10	Tow Dredge to Site and Prep (TS-100)	7 days	Thu 12/10/20	Thu 12/17/20	
11	**Surveys (TS-210)**	**318.99 days**	**Tue 5/12/20**	**Fri 3/26/21**	
12	**Pre Construction Surveys**	**119 days**	**Tue 5/12/20**	**Tue 9/8/20**	
13	**Priority Surveys for Dike Construction**	**81 days**	**Tue 5/12/20**	**Sat 8/1/20**	
14	Pre Construction Submittals	0 days	Tue 5/12/20	Tue 5/12/20	
15	CPRA Pre-Construction Survey Submittal Approval	14 days	Tue 5/12/20	Tue 5/26/20	14
16	Mobilization, Project Setup, Project Control (Locate, Verify and Establish)	0 days	Tue 5/26/20	Tue 5/26/20	15



Project: 84768 - Caminanda Head
Date: Mon 6/8/20

Task	Inactive Task	Manual Summary Rollup	External Milestone	Manual Progress
Split	Inactive Milestone	Manual Summary	Deadline	
Milestone	Inactive Summary	Start-only	Critical	
Summary	Manual Task	Finish-only	Critical Split	
Project Summary	Duration-only	External Tasks	Progress	

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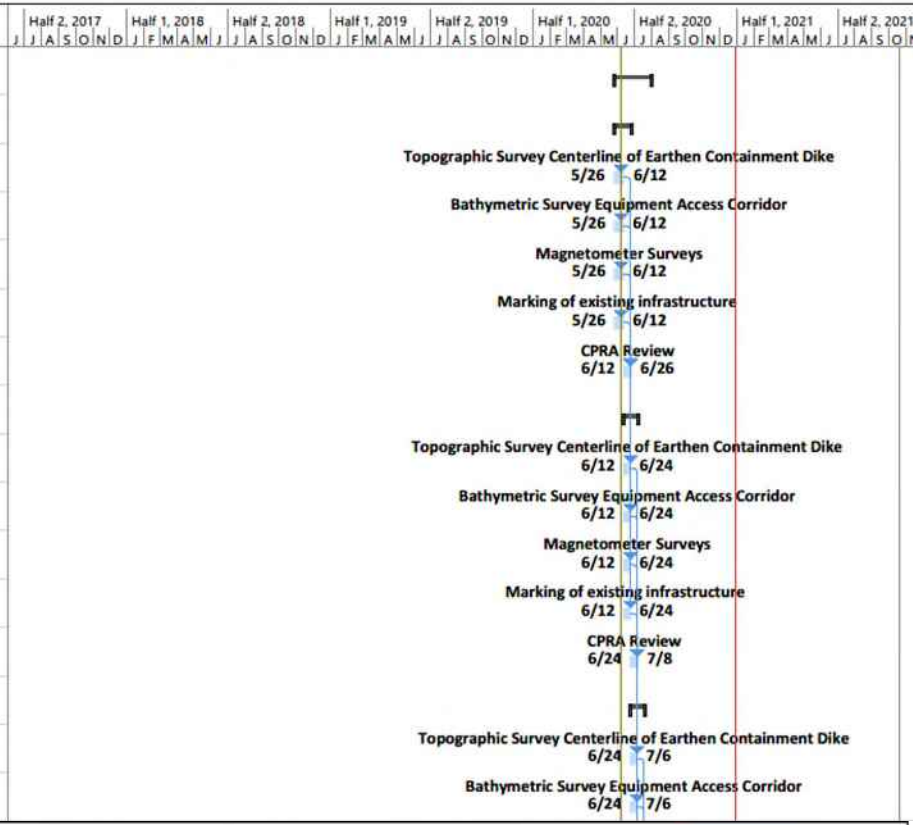
Great Lakes Dredge and Dock Company, LLC

Contractor's preliminary schedule was provided to CPRA on May 13th. Revision #01 was provided on June 8 and is shown above and on the next few slides.

Contractor's Schedule 2 of 6

ID	Task Name	Duration	Start	Finish	Predecessors
17	**Bathymetric and Topographic**	**67 days**	**Tue 5/26/20**	**Sat 8/1/20**	
18	**Increment No. 1**	**31 days**	**Tue 5/26/20**	**Fri 6/26/20**	
19	Topographic Survey Centerline of Earthen Containment Dike	17 days	Tue 5/26/20	Fri 6/12/20	15
20	Bathymetric Survey Equipment Access Corridor	17 days	Tue 5/26/20	Fri 6/12/20	15
21	Magnetometer Surveys	17 days	Tue 5/26/20	Fri 6/12/20	15
22	Marking of existing infrastructure	17 days	Tue 5/26/20	Fri 6/12/20	15
23	CPRA Review	14 days	Fri 6/12/20	Fri 6/26/20	19,20,21
24	**Increment No. 2**	**26 days**	**Fri 6/12/20**	**Wed 7/8/20**	
25	Topographic Survey Centerline of Earthen Containment Dike	12 days	Fri 6/12/20	Wed 6/24/20	19
26	Bathymetric Survey Equipment Access Corridor	12 days	Fri 6/12/20	Wed 6/24/20	20
27	Magnetometer Surveys	12 days	Fri 6/12/20	Wed 6/24/20	21
28	Marking of existing infrastructure	12 days	Fri 6/12/20	Wed 6/24/20	22
29	CPRA Review	14 days	Wed 6/24/20	Wed 7/8/20	25,26,27
30	**Increment No. 3**	**26 days**	**Wed 6/24/20**	**Mon 7/20/20**	
31	Topographic Survey Centerline of Earthen Containment Dike	12 days	Wed 6/24/20	Mon 7/6/20	25
32	Bathymetric Survey Equipment Access Corridor	12 days	Wed 6/24/20	Mon 7/6/20	26



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Project Summary	Duration-only	External Tasks	Progress	

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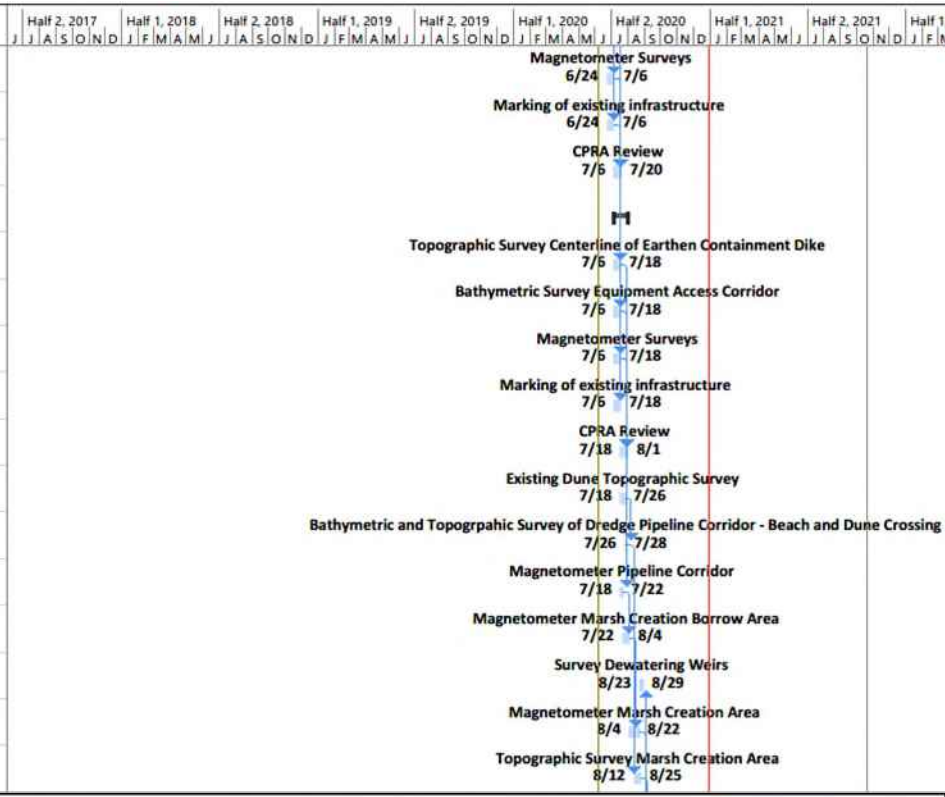
Great Lakes Dredge and Dock Company, LLC

Contractor's Schedule 3 of 6

ID	Task Name	Duration	Start	Finish	Predecessors
33	Magnetometer Surveys	12 days	Wed 6/24/20	Mon 7/6/20	27
34	Marking of existing infrastructure	12 days	Wed 6/24/20	Mon 7/6/20	28
35	CPRA Review	14 days	Mon 7/6/20	Mon 7/20/20	31,32,33
36	**Increment No. 4**	**26 days**	**Mon 7/6/20**	**Sat 8/1/20**	
37	Topographic Survey Centerline of Earthen Containment Dike	12 days	Mon 7/6/20	Sat 7/18/20	31
38	Bathymetric Survey Equipment Access Corridor	12 days	Mon 7/6/20	Sat 7/18/20	32
39	Magnetometer Surveys	12 days	Mon 7/6/20	Sat 7/18/20	33
40	Marking of existing infrastructure	12 days	Mon 7/6/20	Sat 7/18/20	34
41	CPRA Review	14 days	Sat 7/18/20	Sat 8/1/20	37,38,39
42	Existing Dune Topographic Survey	8 days	Sat 7/18/20	Sun 7/26/20	
43	Bathymetric and Topogrpahic Survey of Dredge Pipeline Corridor - Beach and Dune	2 days	Sun 7/26/20	Tue 7/28/20	42
44	Magnetometer Pipeline Corridor	4 days	Sat 7/18/20	Wed 7/22/20	39
45	Magnetometer Marsh Creation Borrow Area	13 days	Wed 7/22/20	Tue 8/4/20	44
46	Survey Dewatering Weirs	6 days	Sun 8/23/20	Sat 8/29/20	70
47	Magnetometer Marsh Creation Area	18 days	Tue 8/4/20	Sat 8/22/20	45
48	Topographic Survey Marsh Creation Area	13 days	Wed 8/12/20	Tue 8/25/20	43



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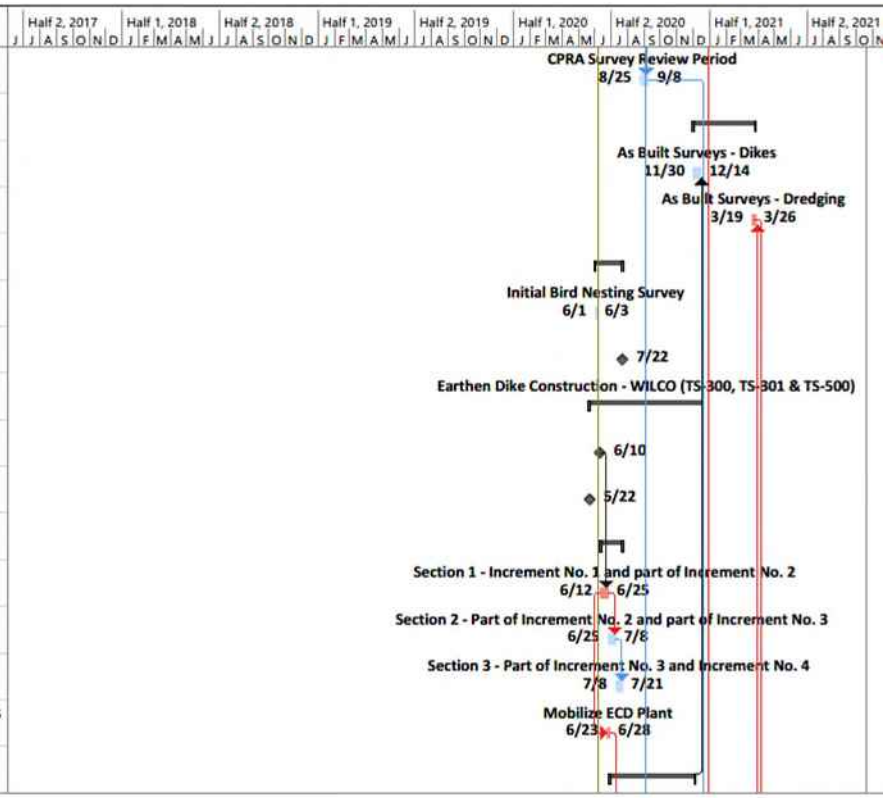
Great Lakes Dredge and Dock Company, LLC

Contractor's Schedule 4 of 6

ID	Task Name	Duration	Start	Finish	Predecessors
49	CPRA Survey Review Period	14 days	Tue 8/25/20	Tue 9/8/20	47,48
50	**As Built Surveys**	**116 days**	**Mon 11/30/20**	**Fri 3/26/21**	
51	As Built Surveys - Dikes	14 days	Mon 11/30/20	Mon 12/14/20	64FS-4 days
52	As Built Surveys - Dredging	7 days	Fri 3/19/21	Fri 3/26/21	80
53	**Bird Monitoring Survey (TS-211)**	**51 days**	**Mon 6/1/20**	**Wed 7/22/20**	
54	Initial Bird Nesting Survey	2 days	Mon 6/1/20	Wed 6/3/20	
55	Bird Abatement Periods - TBD if required	0 days	Wed 7/22/20	Wed 7/22/20	
56	**Earthen Dike Construction - WILCO (TS-300, TS-301 & TS-500)**	**210.99 days**	**Fri 5/22/20**	**Fri 12/18/20**	
57	NTP to Wilco	0 days	Wed 6/10/20	Wed 6/10/20	
58	Louisiana One Call	0 days	Fri 5/22/20	Fri 5/22/20	
59	**Survey Layout**	**39.99 days**	**Fri 6/12/20**	**Tue 7/21/20**	
60	Section 1 - Increment No. 1 and part of Increment No. 2	13.33 days	Fri 6/12/20	Thu 6/25/20	57FS+2 days
61	Section 2 - Part of Increment No. 2 and part of Increment No. 3	13.33 days	Thu 6/25/20	Wed 7/8/20	60
62	Section 3 - Part of Increment No. 3 and Increment No. 4	13.33 days	Wed 7/8/20	Tue 7/21/20	61
63	Mobilize ECD Plant	5 days	Tue 6/23/20	Sun 6/28/20	60SS+11 days
64	**Earthen Containment Dike (TS-300) - (Includes construction ECDs in 2 lifts)**	**159.99 days**	**Sun 6/28/20**	**Fri 12/4/20**	



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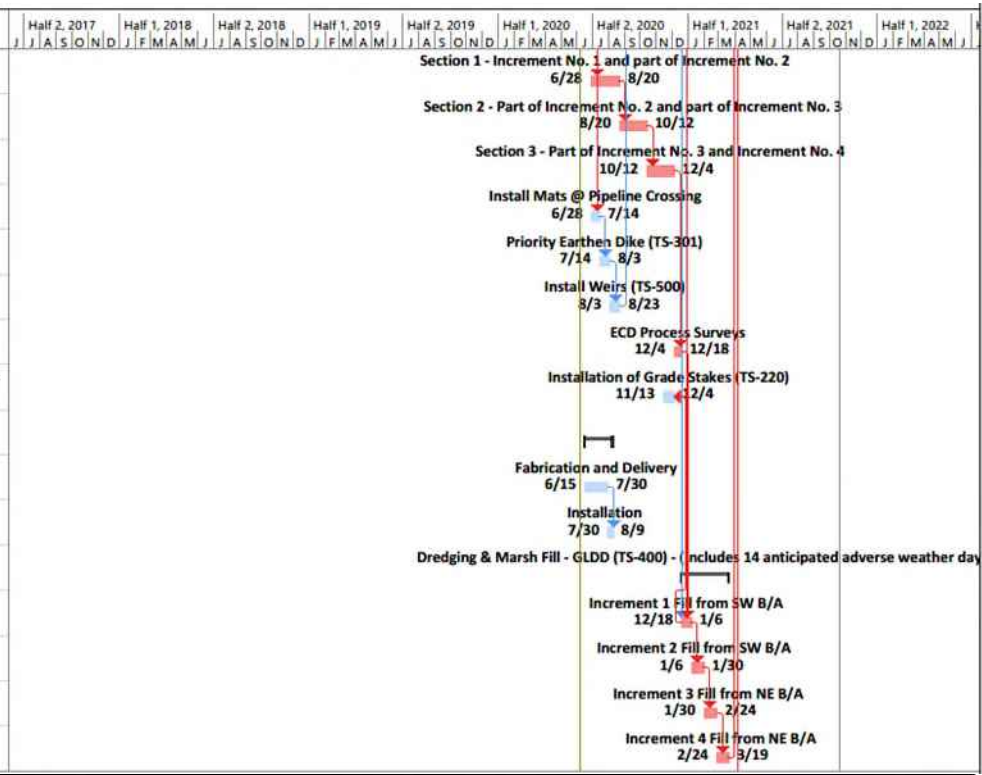
Great Lakes Dredge and Dock Company, LLC

Contractor's Schedule 5 of 6

ID	Task Name	Duration	Start	Finish	Predecessors
65	Section 1 - Increment No. 1 and part of Increment No. 2	53.33 days	Sun 6/28/20	Thu 8/20/20	63
66	Section 2 - Part of Increment No. 2 and part of Increment No. 3	53.33 days	Thu 8/20/20	Mon 10/12/20	65
67	Section 3 - Part of Increment No. 3 and Increment No. 4	53.33 days	Mon 10/12/20	Fri 12/4/20	66
68	Install Mats @ Pipeline Crossing	16 days	Sun 6/28/20	Tue 7/14/20	63
69	Priority Earthen Dike (TS-301)	20 days	Tue 7/14/20	Mon 8/3/20	68
70	Install Weirs (TS-500)	20 days	Mon 8/3/20	Sun 8/23/20	69
71	ECD Process Surveys	14 days	Fri 12/4/20	Fri 12/18/20	67
72	Installation of Grade Stakes (TS-220)	21 days	Fri 11/13/20	Fri 12/4/20	77SF-14 days
73	**Instrumented Settlement Plates (TS-251)**	**55 days**	**Mon 6/15/20**	**Sun 8/9/20**	
74	Fabrication and Delivery	45 days	Mon 6/15/20	Thu 7/30/20	
75	Installation	10 days	Thu 7/30/20	Sun 8/9/20	74
76	**Dredging & Marsh Fill - GLDD (TS-400) - (Includes 14 anticipated adverse weather days)**	**91 days**	**Fri 12/18/20**	**Fri 3/19/21**	
77	Increment 1 Fill from SW B/A	19 days	Fri 12/18/20	Wed 1/6/21	9,10,71,49
78	Increment 2 Fill from SW B/A	24 days	Wed 1/6/21	Sat 1/30/21	77
79	Increment 3 Fill from NE B/A	25 days	Sat 1/30/21	Wed 2/24/21	78
80	Increment 4 Fill from NE B/A	23 days	Wed 2/24/21	Fri 3/19/21	79



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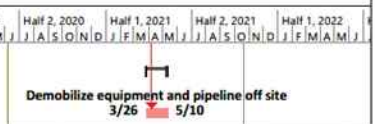
Great Lakes Dredge and Dock Company, LLC

Contractor's Schedule 6 of 6

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT (BA-0171)
GLDD Progress Schedule
REVISION 1

ID	Task Name	Duration	Start	Finish	Predecessors
81	**Demobilization (TS-100, TS-101 & TS-102)**	**45 days**	**Fri 3/26/21**	**Mon 5/10/21**	
82	Demobilize equipment and pipeline off site	45 days	Fri 3/26/21	Mon 5/10/21	52



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General Provisions and Special Provisions

RFI'S

RFI No.	Received	Description	Responded	Response Summary	Status
#1	5/13/2020	Project Survey Control discrepancy and CO#1 dike re-alignment limits	5/20/2020	Clarified project control discrepancy via email dated 5/14/2020 with formal response provided 5/20/2020. CO#1 revised plans shts(2,3,5,6,16,42, and 43) provided to address dike re-alignment question in RFI	Closed
#2	5/20/2020	Requesting modification to TS 210.7.11.1 ECD Stake out provisions	6/2/2020	1. Stake out as identified in original TS-210.7.11.1 and sketched as "Current in Spec" above must be performed at a minimum. Stakes at the toe of the dike and borrow area will designate the 25' minimum clearance between the dike and borrow. This clearance is critical to the stabilization of the dike. If the contractor wants to install and maintain additional stakes on the outside toe of dike and bottom toe of borrow, we take no exception to that. It would appear, however, that borrow excavation would be in conflict and damage additional stakes placed at the bottom toe of borrow.	Closed
#3	6/3/2020	With respect to the Priority Earthen Containment Dike Detail shown on sheet 10 of 53 of the plans (see attached image), the elevation shown for the top of the sand fill is 2.0', which is also the elevation shown for the top of the required 1st lift for the containment dike material. Based on the elevation scale shown on the detail it appears that the top elevation of the sand fill should be -2.0'. Please confirm.	6/7/2020	Correct, the value should be -2.0'.	Closed

General Provisions and Special Provisions

Contractor Support Services

- Transportation (SP-9);
- Office for the Owner (SP-10)

Contractor shall make provisions for providing an office, boat, and transportation between the jobsite and boat launch for Inspector and State and Federal personnel

INSPECTION (GP-16, 28 and 29)

Sigma Consulting Group (SCG), in cooperation with S&ME, Inc. (S&ME) will perform construction administration, inspection, and monitoring services for CPRA.

The SCG-S&ME Team will be an authorized representative of the CPRA Construction Engineer during construction of the project from award of the bid through the final acceptance of the project providing both administrative oversight and on-site quality assurance inspections.

The inspector will be CPRA's eyes and ears in the field. They are not there to direct work but can inform both CPRA and GLDD on what does and does not meet specification. The inspector will be granted Stop-Work authority, and may do so when the Work endangers personnel, but the inspector will not stop Work based on conformity to specification.

COMMUNICATION FLOW (GP-16)

All communication to and from GLDD shall flow through SCG's construction manager.

- Claims, disputes, and other matters relating to the acceptability of the Work, performance by the Contractor, or the interpretation of the requirements of the Contract Documents must be submitted by the Contractor to SCG in writing. Responses will be provided in writing through SCG.
- The Engineer (through SCG), shall issue the final written clarifications or interpretations which are consistent with the overall intent of the Contract Documents.

SUBMITTALS, SHOP DRAWINGS, REPORTS, AND RECORDS
(SP-3, SP-19, GP-41)

See SP-3 for contract milestone requirements, prior to, during, and post construction.

Submittals shall be provided in accordance with SP-19 and GP-41. A Project Communication Plan has been developed and will be distributed.

Per GP-41: Each submittal shall contain a signed statement by the contractor that it complies with the contract requirements.

CURRENT PERMITS (GP-26, TS-211, Appendix E)

1. USACE Section 10/404 Permit and Permit Modification;
2. Consistency Determination from the LDNR;
3. Fill Permit from the LDWF (acquired by CPRA in January 2020).

Contractor Notifications (GP-24, 25, and 26, SP-13 and14)

1. Landowners, utilities and Louisiana One-Call prior to construction; (See Plan Sht 2 of 53 and Appendix D for Contact Info and Permits)
2. Engineer before performing surveys and after field work is complete;
3. Engineer regarding non-compliance with permits, including but not limited to
    - Bird abatement
    - Presence of manatees
    - Historical or cultural artifacts
4. Engineer regarding dike breaches;

Notice to Mariners and Navigation (SP-15, 16, 17)

1. A copy of the Notice to Mariners shall be provided to the Engineer prior to excavation or dredging.
2. After consultation with the USCG, the Contractor shall provide the type and location of any necessary aids to navigation to the Engineer.

QUALITY CONTROL (GP-20, GP-31, GP-47, GP-56)

Contractor shall designate:

- Quality Control Person
- On-site Superintendent
- Identify Who is Authorized to Approve and Execute Change Orders

MONTHLY PAYMENT REQUESTS

(GP-58, Communication. Plan Section 2.5)

- Pay Request Form must be approved prior to Partial Payment Request No. 1
- In addition to any Ratio of Effort and Withholdings(Appendix O), a Retainage of 5% will be withheld for a minimum of 45 days after Final Acceptance to ensure that all liens are released.
- All Sub-Contractor Partial Payment request must be incorporated into the Prime Contractors payment request

PAYROLLS AND LABOR STANDARDS

(GP-4 and Appendix M Web Link for Wage Rate Determination)

- Obtain Current Wage Determinations for Lafourche and Jefferson Parish
- Random Employee Interviews for various pay classifications(Prime and Subs) to be performed by SCG
- Certified Payroll w/statement of Compliance from both Prime and Subs required with each pay request this will hold up the payment approval process if it is not included

PROGRESS MEETINGS
(GP-13, GP-39 and SP 3)

- Typically Bi-Weekly Meeting with a reoccurring: Time, Day, and Location Selected
  - Sufficient seating with WiFi required
  - Start time shall be set to allow travel time from Baton Rouge for Team Members
- Owner, Engineer, and Contractor are required participants. CPRA (CM, E&D, PM), EPA, Subs, and landowners will be invited and often in attendance.
- The CPRA Project Representative will prepare the meeting agenda based on input from Contractor
- Contractor shall record details of the meeting in a Progress Report

AS-BUILT DRAWINGS
(GP-54, SP-3 and SP-4)

- The Contractor shall keep an accurate as-built record of all changes in the Contract Document during construction. These changes shall be noted and shown in red on the drawings and be easily distinguishable from the original design.

CONSTRUCTION PLANS AND TECHNICAL SPECIFICATIONS

The following Slides have been developed to provided a brief overview of the Primary Construction Elements to assist in providing a Mutual Understanding of the Work to be performed

Bid Items

ITEM NO	Bid Item DESCRIPTION	UNIT	EST. QUANTITY	Ratio of Effort	UNIT PRICE	Bid Totals	Cost Derivations and Other Requirements
1	Hydraulic Dredge Mobilization and Demobilization (TS-100)	LS	1	60% Mob 40% Demob & MCA Acceptance	$ 3,000,000.00	$3,000,000.00	Includes mob and demob of the dredge and booster. Excludes operational cost.
2	Dredge Pipeline Mobilization, Installation and Demobilization (TS-101)	LS	1	50% Mob 50% Demob & MCA Acceptance	$ 4,500,000.00	$4,500,000.00	Includes infrastructure crossings, maintenance and repositioning of pipe
3	General Mobilization and Demobilization (TS-102)	LS	1	60%mob 40% Demob & MCA Acceptance	$ 600,000.00	$600,000.00	Includes all other labor, equipment (Marsh Buggies), supplies, bonds, insurance and all other incidentals (Weirs)
4	Surveys (TS-210)	LS	1	40% Precon 40% Process 20% As-Builts	$ 285,000.00	$285,000.00	Includes bathy/topo/mag surveys of the marsh creation areas, all borrow areas, containment dikes, pipeline and equipment corridors, bench marks, aids to navigation, grade staked and settlement plates
5	Daily Bird Abatement (TS 211)	EA	226	Per Day	$ 800.00	$180,800.00	
6	Grade Stakes (TS-220)	EA	50	100% Installed	$ 105.00	$5,250.00	
7	Instrumental Settlement Plates (TS-251)	EA	17	90% Installed 10% MCA Acceptance	$ 5,000.00	$85,000.00	Includes fabrication and installation within 2 months after NTP Excludes associated instrumentation
8	Earthen Containment Dikes (TS-300)	LF	48,138	50% 1st Lift 50% 2nd Lift	$ 142.00	$6,835,596.00	Includes construction of internal training dikes, maintenance, and 30-day delay in between lifts
9	Priority Earthen Dike (TS-301)	LS	1	50% 1st Lift 50% 2nd Lift	$ 350,000.00	$350,000.00	Includes excavation and transport of sand as a base, maintenance and 30-day delay in between lifts
10	Hydraulic Dredging and Marsh Creation (TS-400)	CY	2,624,810	100% per CY	$ 6.00	$15,748,860.00	Construct in 1 lift progressing from west to east. Owner reserves the right to adjust quantities and fill elevations
8	CO#1 Earthen Containment Dikes	LF	(4,047)		$ 142.00	($574,674.00)	
10	CO#1 Hydraulic Dredging and Marsh Creation	CY	(154,610)		$ 6.00	($927,660.00)	
						$30,088,172.00	

Title Sheet

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	PROJECT LAYOUT
4	BORROW AREA LAYOUT
5 - 6	MARSH CREATION AREA LAYOUT
7	TYPICAL BORROW AREA SECTIONS
8	TYPICAL DREDGE PIPELINE CORRIDOR AND PIPELINE CROSSING SECTIONS
9	TYPICAL MARSH CREATION AREA SECTIONS
10	EARTHEN CONTAINMENT DIKE DETAILS
11	INSTRUMENTED SETTLEMENT PLATE AND GRADE STAKE DETAILS
12	BORROW AREA DESIGN SURVEY LAYOUT
13	BORROW AREA CONSTRUCTION SURVEY LAYOUT
14 - 15	MARSH CREATION AREA DESIGN SURVEY LAYOUT
16 - 17	INSTRUMENTED SETTLEMENT PLATE AND CONSTRUCTION SURVEY LAYOUT
18 - 33	BORROW AREA SECTIONS
34 - 41	DREDGE PIPELINE CORRIDOR SECTIONS
42 - 51	MARSH CREATION AREA SECTIONS
52 - 53	EQUIPMENT ACCESS CORRIDOR SECTIONS

STATE OF LOUISIANA
COASTAL PROTECTION AND RESTORATION AUTHORITY

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

PROJECT NO. BA-0171
LAFOURCHE AND JEFFERSON PARISHES

LICENSURE CLASSIFICATION REQUIREMENTS
HEAVY CONSTRUCTION OR DREDGING

SHANNON McCLAIN HAYNES
License No. 30552
PROFESSIONAL ENGINEER

AMANDA M. TAYLOR
License No. 41999
PROFESSIONAL ENGINEER

General Notes

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOT, AT ANY TIME, TREAD ON EXISTING MARSH OR VEGETATED WETLANDS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NAVIGATING WITHIN THE LIMITS OF THE PROJECT SITE. THE ENGINEER OR HIS REPRESENTATIVE SHALL MONITOR THE CONTRACTOR'S LOCATION DURING CONSTRUCTION.
3. PLANS AND SPECIFICATIONS ARE COMPLEMENTARY; WHAT IS REQUIRED BY ONE IS BINDING AS IF REQUIRED BY ALL. CLARIFICATIONS AND INTERPRETATIONS OF, OR NOTIFICATIONS OF MINOR VARIATIONS AND DEVIATIONS IN THE CONTRACT DOCUMENTS, WILL BE ISSUED BY THE ENGINEER.
4. ANY DAMAGE TO EXISTING U.S. COAST GUARD NAVIGATION AIDS OR PRIVATE NAVIGATION AIDS SHALL BE REPAIRED BY THE CONTRACTOR TO U.S. COAST GUARD STANDARDS AT THE EXPENSE OF THE CONTRACTOR.
5. THE MARSH CREATION AREA, BORROW AREAS, AND CONTAINMENT DIKES MAY BE REVISED BY THE ENGINEER THROUGHOUT THE WORK TO REFLECT CHANGES IN FIELD CONDITIONS.
6. THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY OF THE DREDGE PIPELINE CORRIDOR, BORROW AREAS, AND MARSH CREATION AREA PRIOR TO EXCAVATION. DRAWINGS SHOWING THE TRACK LINES, ANY MAGNETOMETER HITS, COORDINATES, AMPLITUDE, SIGNATURE TYPE, AND SIGNATURE WIDTH OF ALL MAGNETOMETER HITS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO EXCAVATION.
7. THE CONTRACTOR IS RESPONSIBLE FOR CONTAINING ALL HYDRAULICALLY DREDGED MATERIAL WITHIN THE BOUNDARIES OF THE MARSH CREATION AREA.
8. BACKGROUND IMAGERY WAS TAKEN IN 2016.
9. THE PIPELINE AND UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. PIPELINES LOCATED WITHIN 150' OF THE WORK SHALL BE MARKED BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION AND HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS.

NOTIFICATIONS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE FOLLOWING PIPELINE AND UTILITY OPERATORS AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF THE WORK. CALL LOUISIANA ONE CALL AT 1-800-272-3020 5 DAYS PRIOR TO ANY EXCAVATION AND/OR DREDGING TO LOCATE ALL PIPELINES OR UTILITIES.

CHEVRON USA, INC.	ARROWHEAD/HARVEST PIPELINE	LOOP, LLC
CONTACT: TODD DORE	CONTACT: ANTHONY ARELLANO	CONTACT: CINDY GARDNER-LEBLANC
PHONE: (985) 773-6389	PHONE: (504) 912-4425	PHONE: (985) 276-6299

XTO OFFSHORE, INC./XTO ENERGY, INC.	TRANSCANADA/ANR PIPELINE CO.
CONTACT: DAVID DUFOUR	RICARDO "RICK" LOPEZ
PHONE: (817) 870-2800	PHONE: (337) 266-4695
EMAIL: DAVID_DUFOUR@XTOENERGY.COM	EMAIL: RICARDO_LOPEZ@TRANSCANADA.COM

2. THE CONTRACTOR SHALL NOTIFY THE LANDOWNERS LISTED BELOW AT LEAST FIVE (5) WORKING DAYS PRIOR TO PERFORMING THE WORK.

EDWARD WISNER DONATION CO.	CAILLOUET LAND, LLC	LOUISIANA DEPARTMENT OF WILDLIFE & FISHERIES
CONTACT: AMANDA PHILIPS	CONTACT: JAY CAILLOUET	CONTACT: JULIA LIGHTNER
PHONE: (504) 210-1152	PHONE: (985) 665-2123	PHONE: (504) 286-4041

DESIGN NOTES:

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) U.S. SURVEY FEET. ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83, LOUISIANA STATE PLANE SOUTH ZONE U.S. FEET). ALL ELEVATIONS ARE BASED ON THE FOLLOWING:

SECONDARY SURVEY MONUMENT	ELEVATION	NORTHING	EASTING	GEOID
CRMSBA-SM-19	2.45'	250,130.9	3,674,132.84	12A

2. THE EXISTING ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE SURVEYS PERFORMED FROM MAY 2015 THROUGH JULY 2015 BY MORRIS P. HEBERT AND FROM FEBRUARY 2017 THROUGH MARCH 2017 BY HYDROTERRA TECHNOLOGIES FOR THE CPRA. ELEVATIONS ARE REFERENCED TO NAVD88, US FEET, GEOID 12A.
3. DATA FROM STATION CRMS0292 WAS USED TO CALCULATE THE MHW AND MLW. ELEVATIONS ARE REFERENCED TO NAVD 88, US FEET, GEOID 12A. MHW = +0.84' AND MLW = -0.59'
4. A GEOTECHNICAL INVESTIGATION WAS PERFORMED ON THE BORROW AREA BY EUSTIS ENGINEERING IN JANUARY 2015 AND BY ARDAMAN AND ASSOCIATES IN AUGUST 2017 AND ON THE MARSH CREATION AREA BY GEOENGINEERS IN MAY 2015 AND BY ARDAMAN AND ASSOCIATES IN AUGUST 2017. THE BORING LOCATIONS ARE SHOWN ON THE PLANS. THE GEOTECHNICAL INVESTIGATION REPORT IS PROVIDED IN THE APPENDICIES OF THE SPECIFICATIONS.

ENVIRONMENTAL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH THE SPECIAL PROVISION FOR NESTING BIRDS AND ANY OTHER ENVIRONMENTAL REQUIREMENTS IN THE SPECIFICATIONS.

SUMMARY OF ESTIMATED QUANTITIES

BASE BID

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY[1]
1	HYDRAULIC DREDGE MOBILIZATION AND DEMOBILIZATION (TS-100)	LUMP SUM	1
2	DREDGE PIPELINE MOBILIZATION, INSTALL, & DEMOBILIZATION (TS-101)	LUMP SUM	1
3	GENERAL MOBILIZATION & DEMOBILIZATION (TS-102)	LUMP SUM	1
4	SURVEYS (TS-210)	LUMP SUM	1
5	DAILY BIRD ABATEMENT (TS-211)	DAY	226
6	GRADE STAKES (TS-220)	EACH	50
7	INSTRUMENTED SETTLEMENT PLATES (TS-251)	EACH	17
8	EARTHEN CONTAINMENT DIKES (TS-300)	LINEAR FOOT	44,091 (A)
9	PRIORITY EARTHEN DIKE (TS-301)	LUMP SUM	1
10	HYDRAULIC DREDGING AND MARSH FILL (TS-400)	CUBIC YARD	2,470,200 (A)

1. THE QUANTITIES SHOWN WERE CALCULATED ACCORDING TO CONDITIONS SURVEYED FROM MAY 2015 THROUGH JULY 2015 AND FROM FEBRUARY 2017 THROUGH MARCH 2017. THE OWNER RESERVES THE RIGHT TO ADJUST QUANTITIES 25% HIGHER OR LOWER WITHOUT ADJUSTMENT OF THE UNIT PRICE.
2. QUANTITY IS BASED ON THE BORROW AREA CUT VOLUMES. PAYMENT QUANTITY WILL BE BASED ON PROCESS SURVEYS OF THE BORROW AREA.

ACRONYMS & ABBREVIATIONS:

BA	BORROW AREA	INC	INCREMENT
CMF	CONSTRUCTED MARSH FILL	ISP	INSTRUMENTED SETTLEMENT PLATE
CPT	CONE PENETRATION TEST	LF	LINEAR FOOT
CY	CUBIC YARD	LS	LUMP SUM
DPC	DREDGE PIPE CORRIDOR	MCA	MARSH CREATION AREA
EAC	EQUIPMENT ACCESS CORRIDOR	MNA	MARSH NOURISHMENT AREA
ECD	EARTHEN CONTAINMENT DIKE	PL	PIPELINE
EL	ELEVATION	SF	SQUARE FOOT
FT	FOOT	TS	TEMPORARY SPOIL

STATE OF LOUISIANA
SHANNON McCLAIN HAYNES
License No. 30552
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
2/18/20

COASTAL PROTECTION AND RESTORATION AUTHORITY
1 NO TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

GENERAL NOTES

CAMINADA HEADLAND BACK BARRIER MARSH CREATION PROJECT

STATE PROJECT NUMBER: BA-0171

DESIGNED BY: A. TAYLOR, P.E. (RUPP)

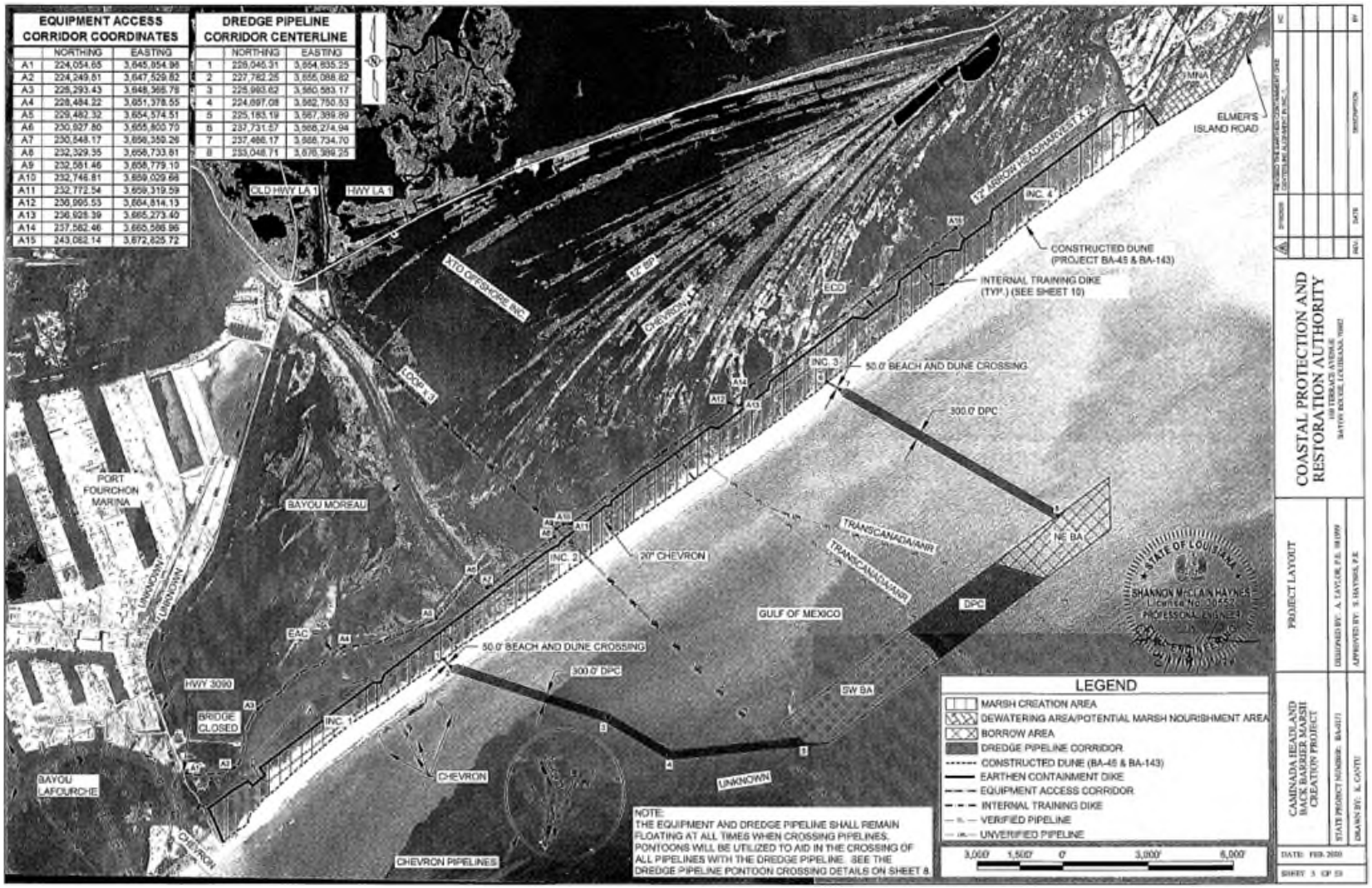
APPROVED BY: S. HAYNES, P.E.

DRAWN BY: K. CANTU

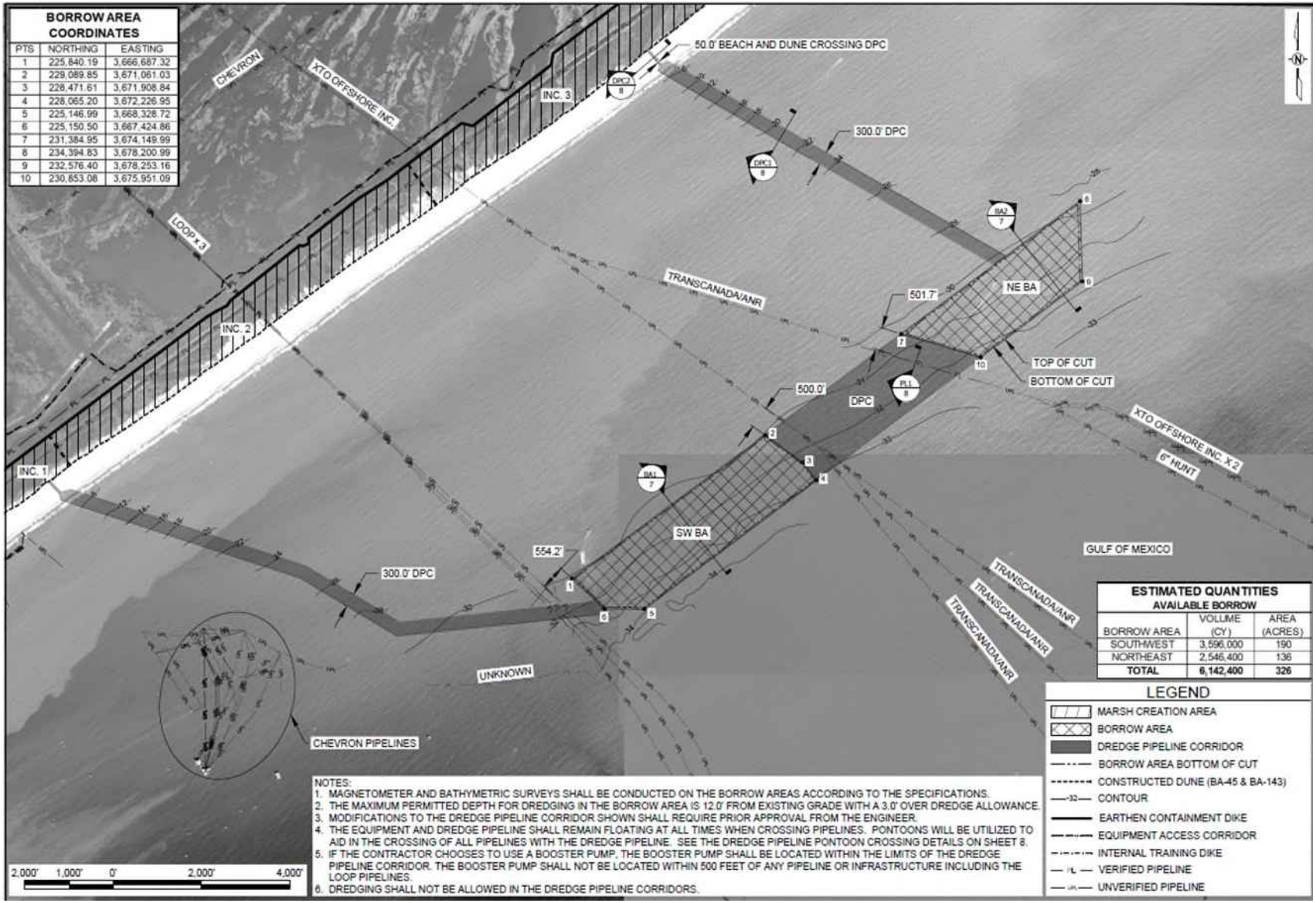
DATE: FEB 2020

SHEET 2 OF 51

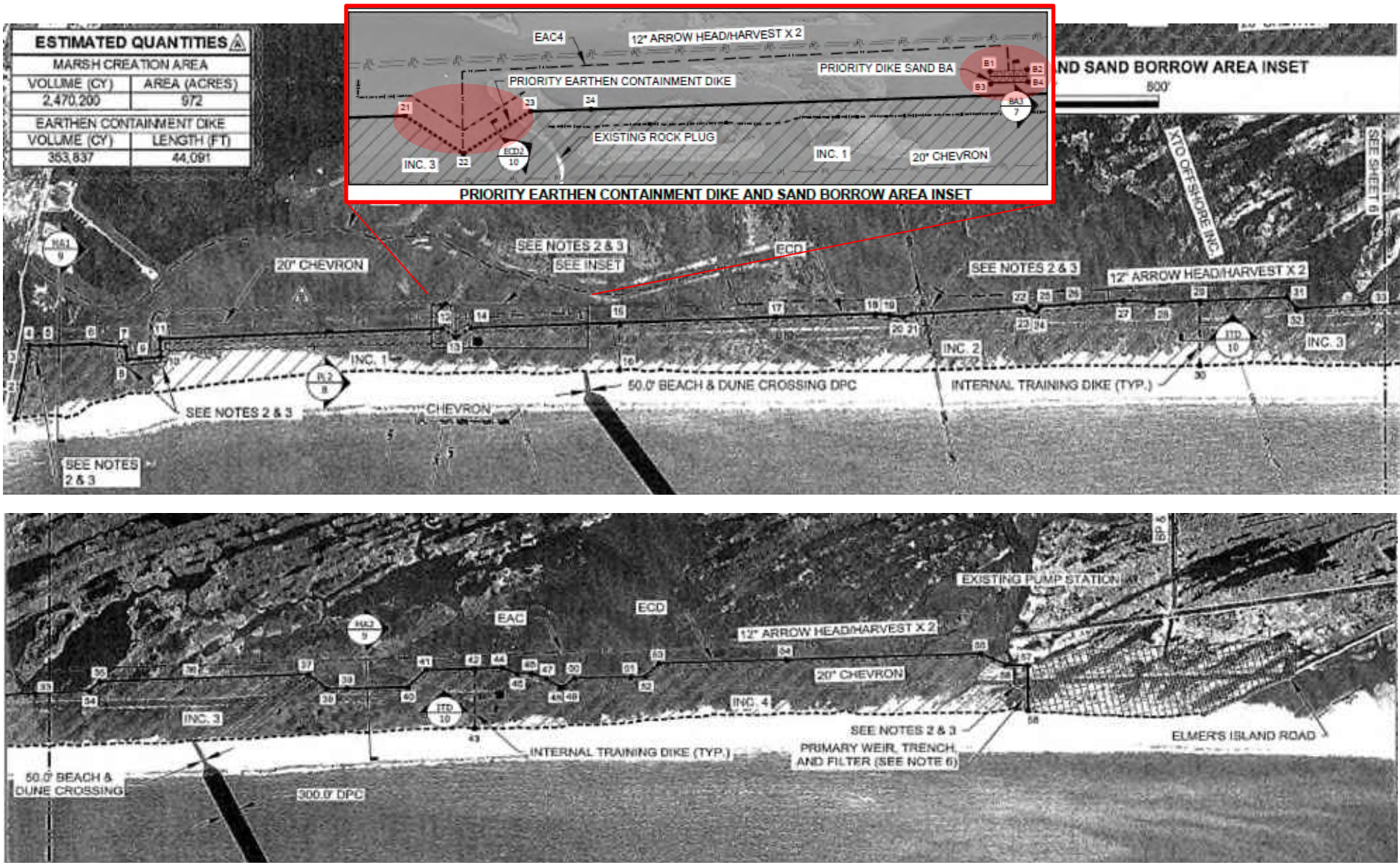
Project Layout



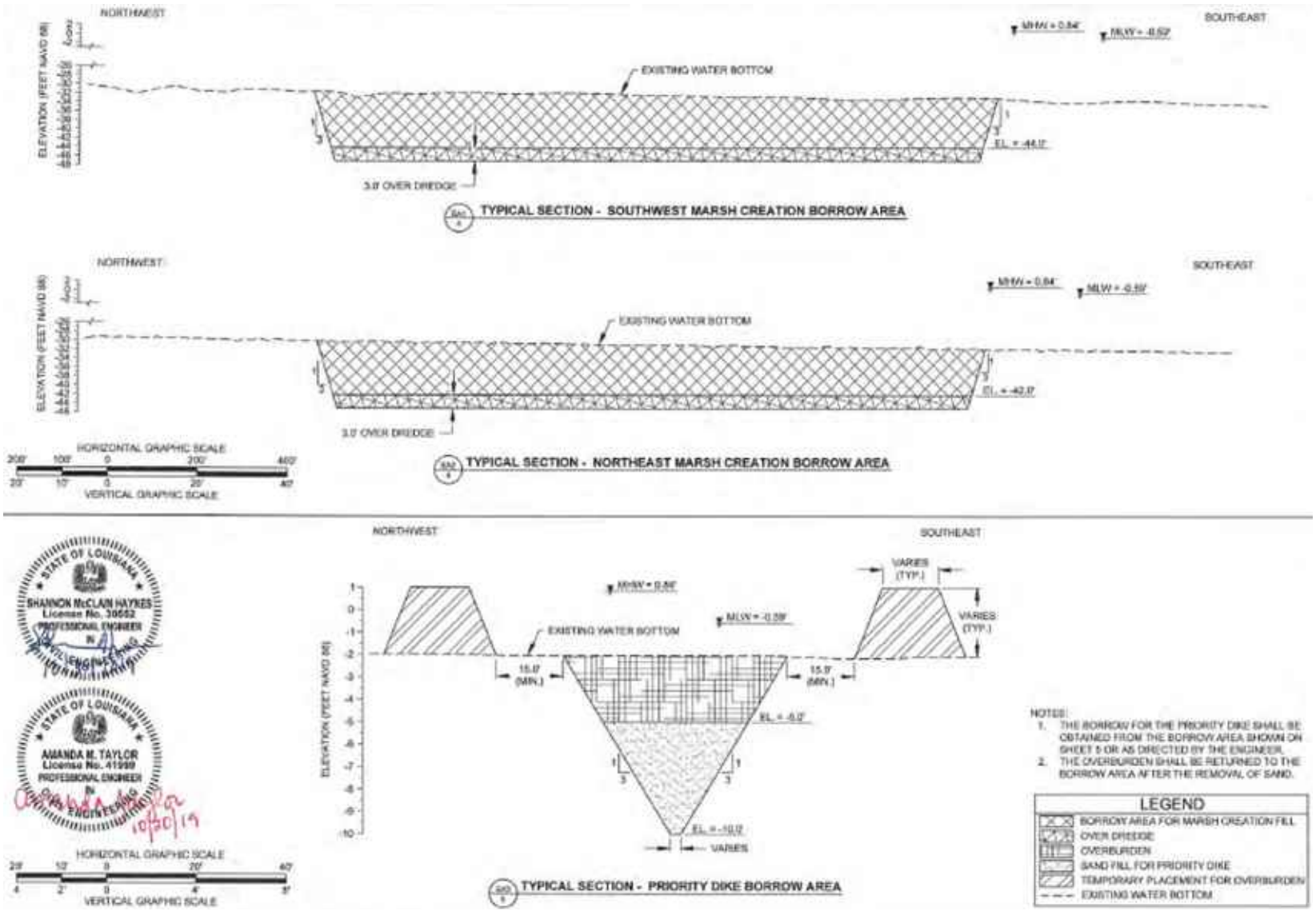
Borrow Area Layout



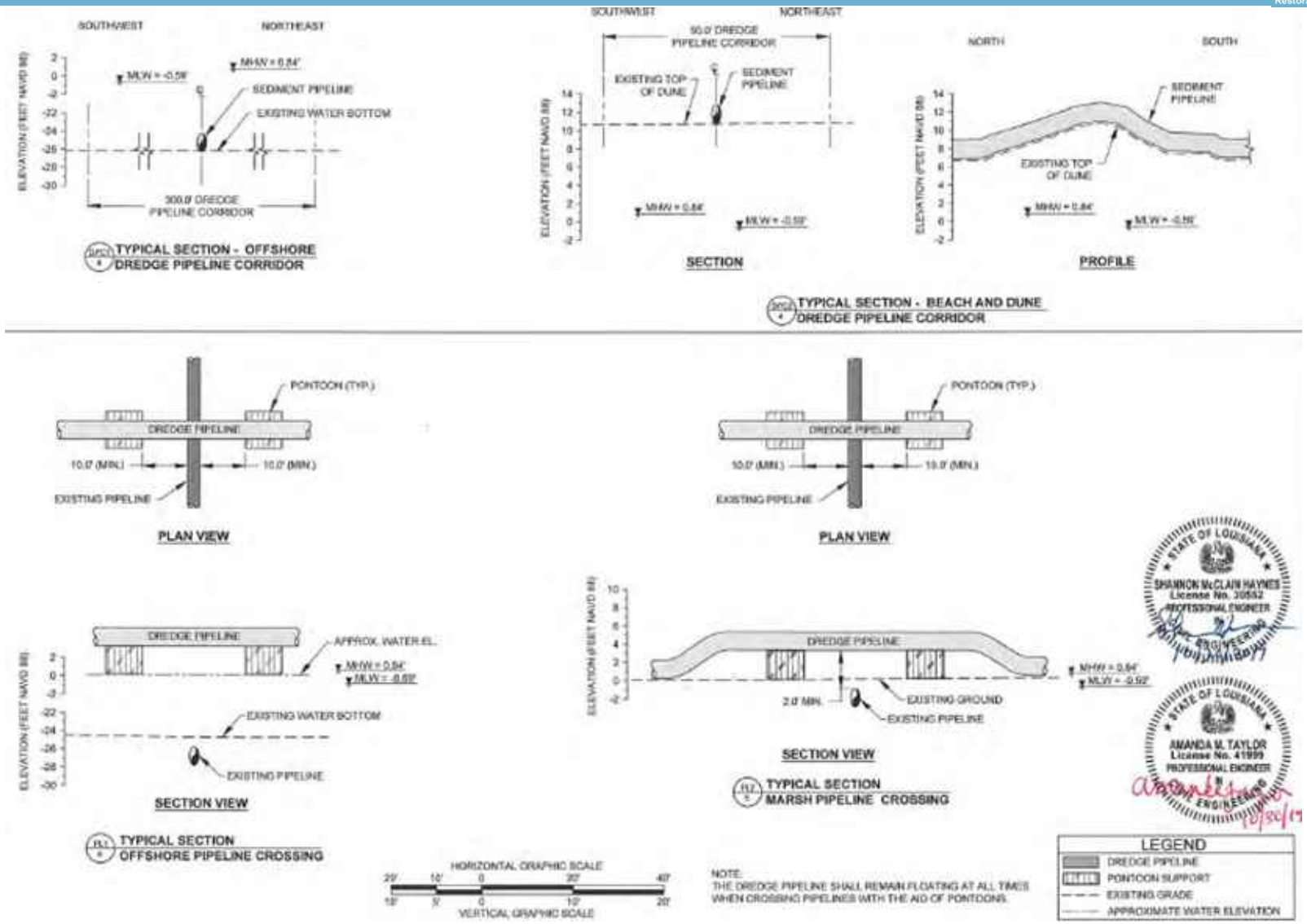
Marsh Creation Area Layout



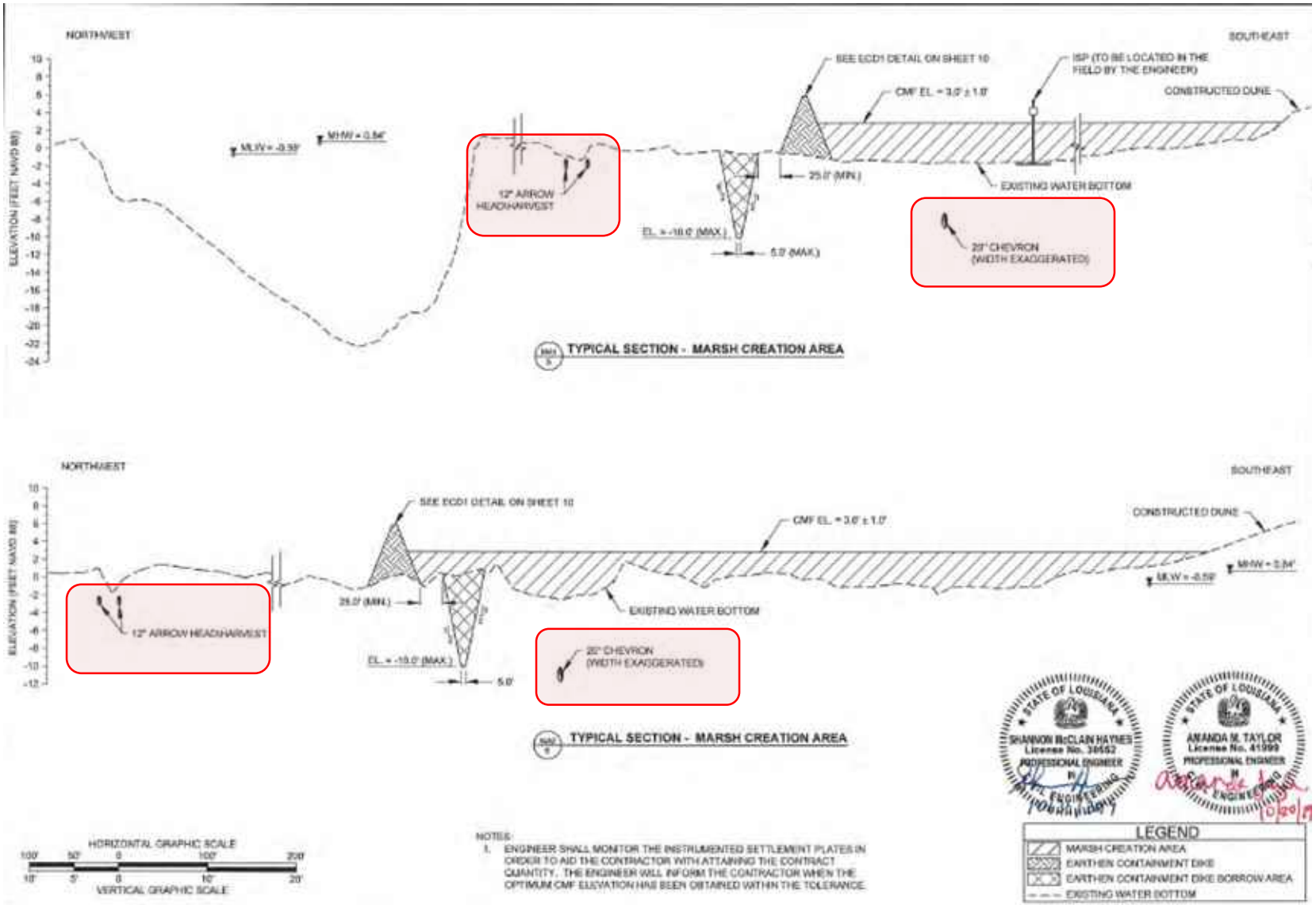
Typical Borrow Area Sections



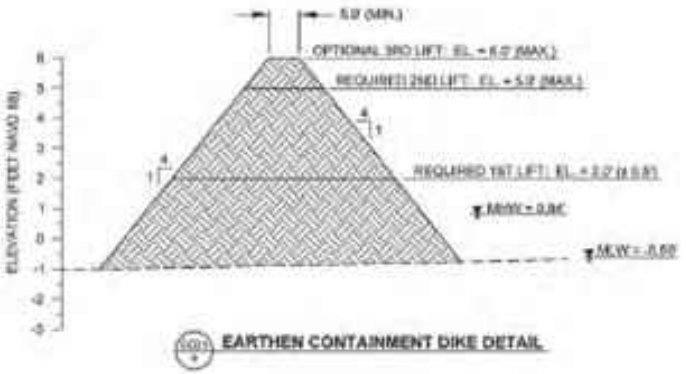
Typical Pipeline Crossings

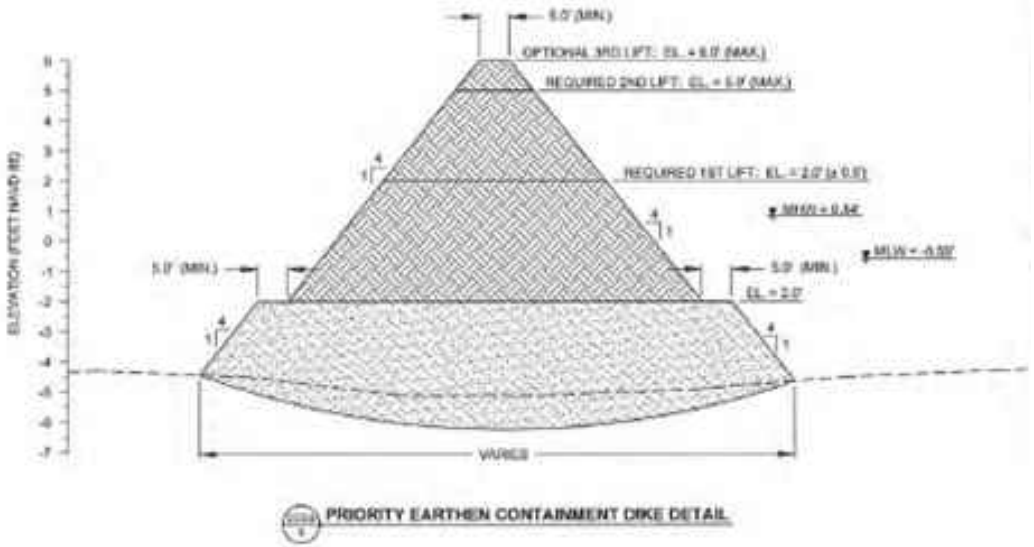


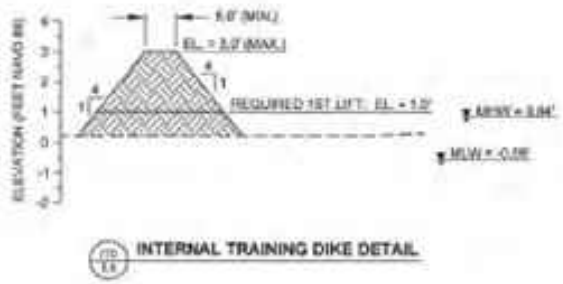
Typical MCA Sections

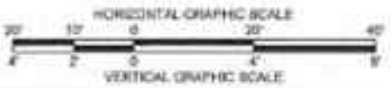


Typical Containment and Training Dikes



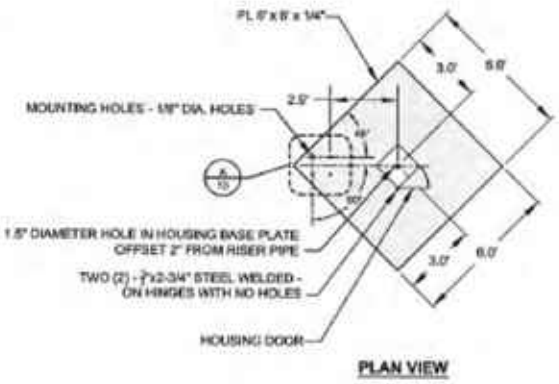




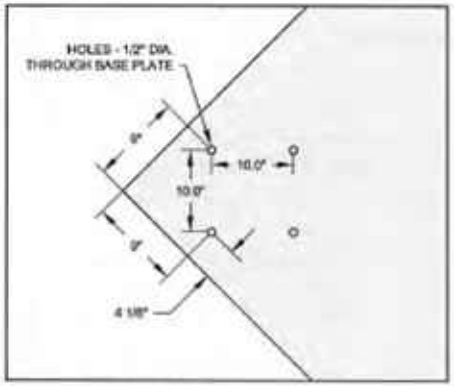


NOTES:
1. THERE SHALL BE A MINIMUM DELAY TIME OF 30 DAYS IN BETWEEN THE COMPLETION OF EACH LIFT AND CONSTRUCTION OF THE SUBSEQUENT LIFT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. THE REQUIRED FIRST LIFT FOR THE PRIORITY EARTHEN CONTAINMENT DIKE CAN BE CONSTRUCTED IMMEDIATELY AFTER THE PLACEMENT OF SAND.
3. MODIFICATIONS TO THE INTERNAL TRAINING DIKE TEMPLATE SHALL BE PROVIDED IN THE WORK PLAN AND APPROVED BY THE ENGINEER.

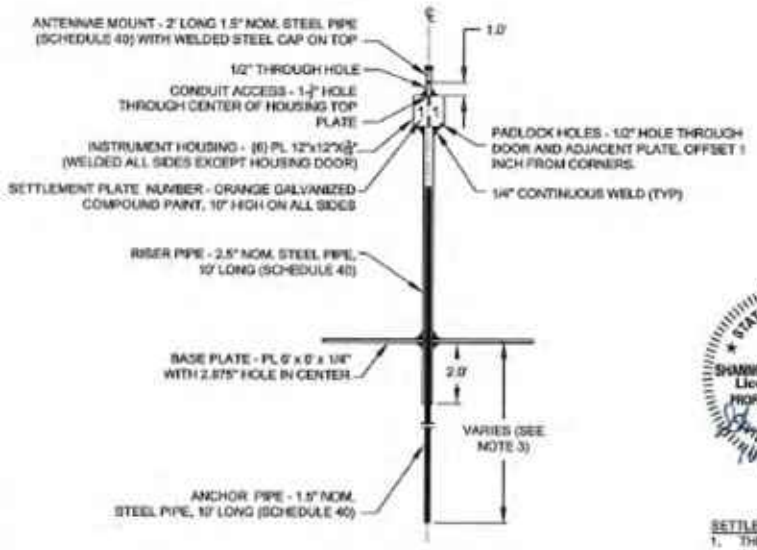
Typical ISP and Grade Stakes



PLAN VIEW



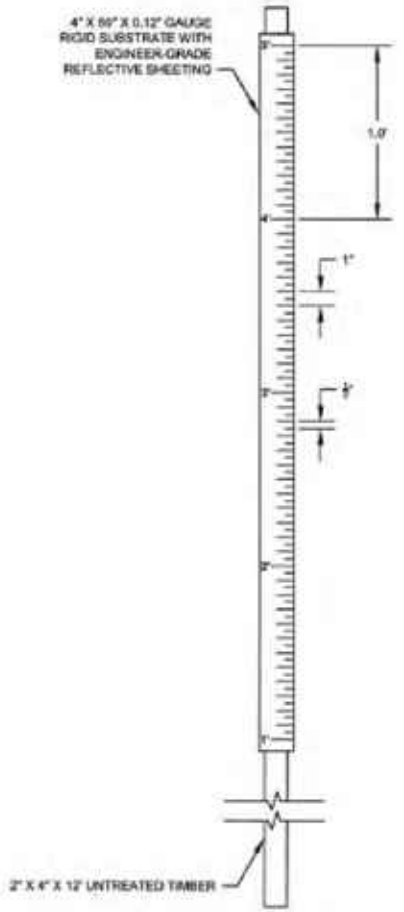
PRESSURE PLATE DETAIL
NTS



PROFILE VIEW

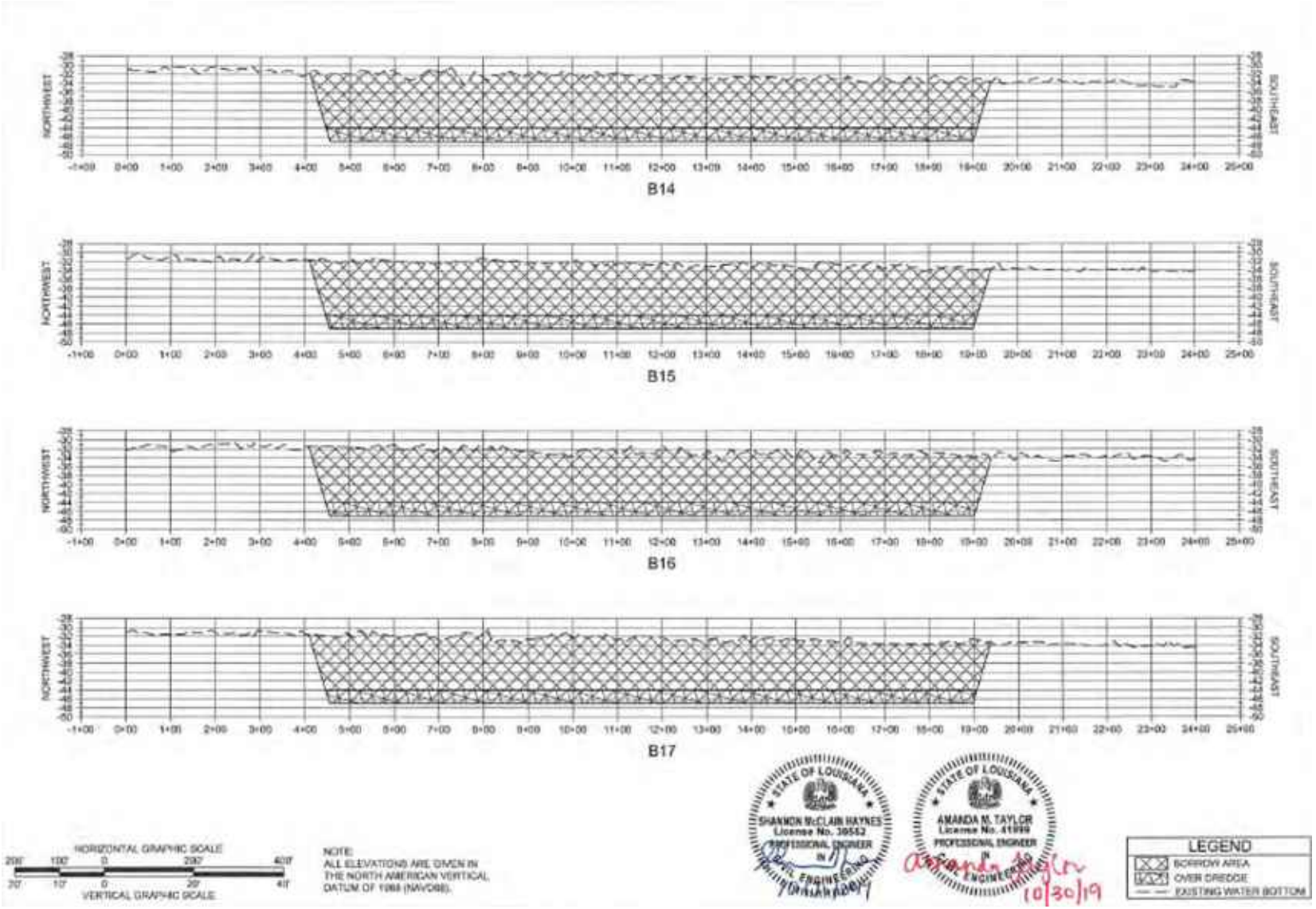
INSTRUMENTED SETTLEMENT PLATE
NTS

SETTLEMENT PLATE NOTES:
1. THE SETTLEMENT PLATES SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
2. CPRA TO INSTALL INSTRUMENTATION ONTO THE SETTLEMENT PLATES IN THE FIELD WITH ASSISTANCE FROM THE CONTRACTOR.
3. DRIVEN DEPTH OF THE ANCHOR PIPE WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

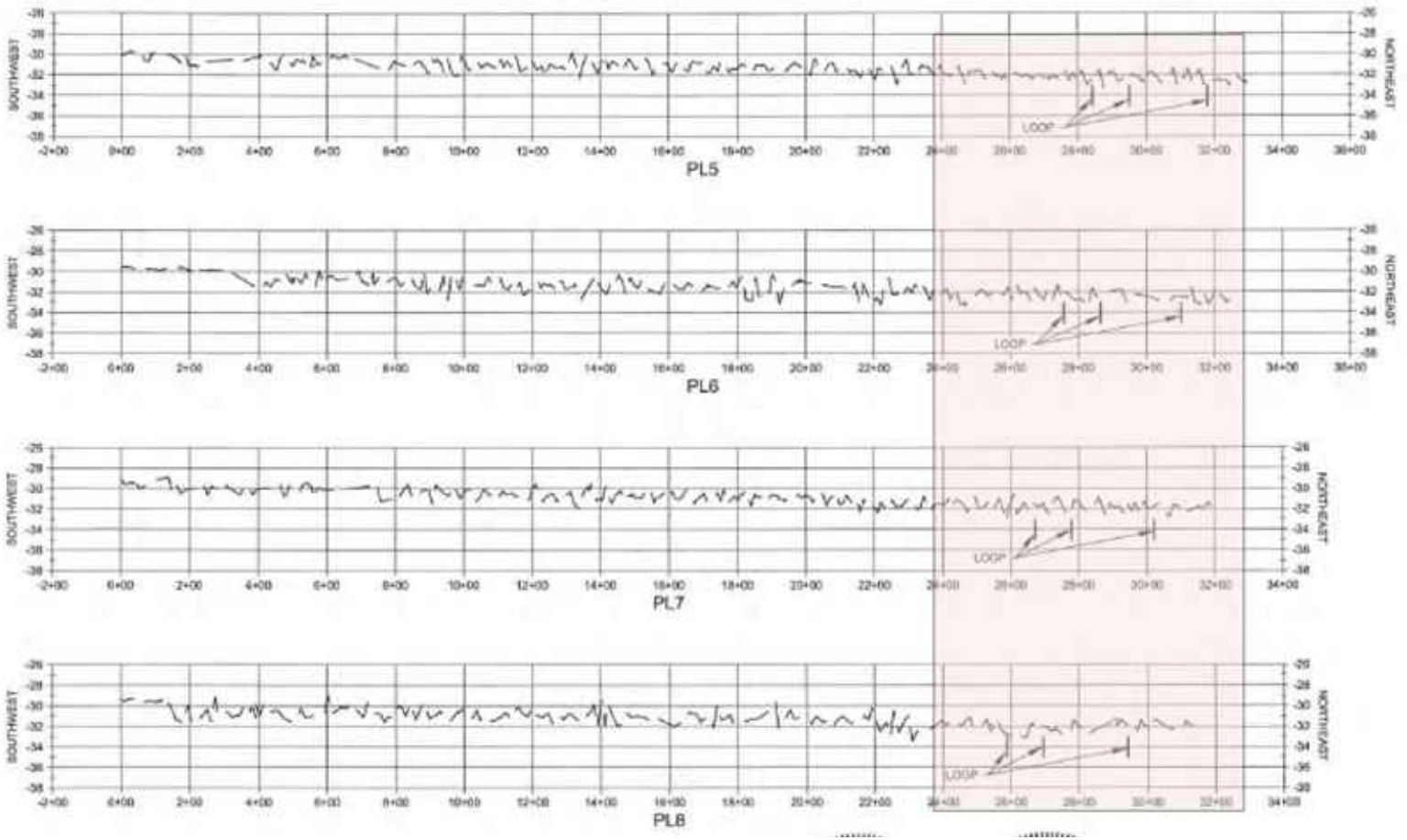


GRADE STAKE DETAIL
NTS

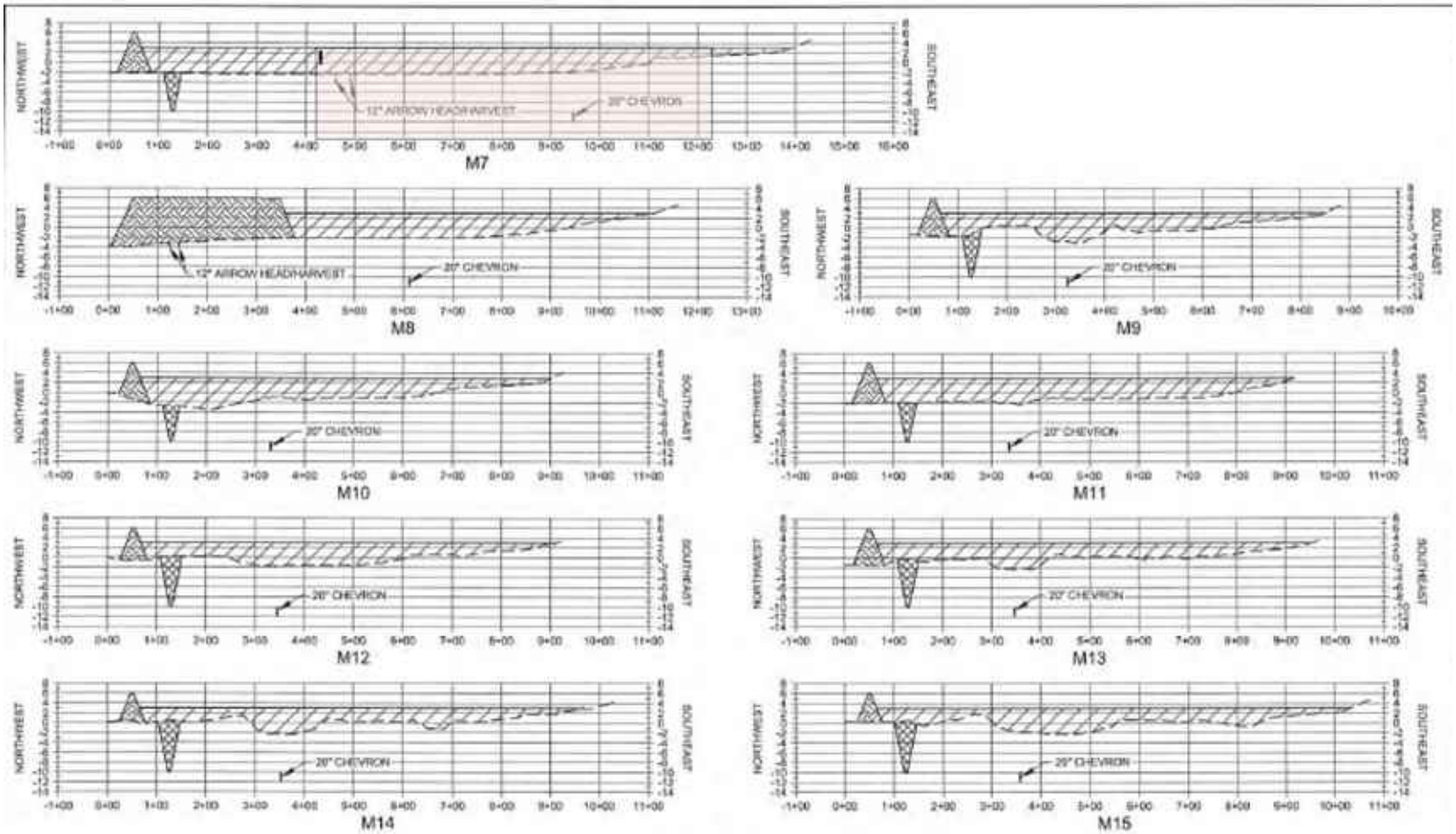
Typical Borrow Area Sections



Typical Dredge Pipeline Corridor Sections

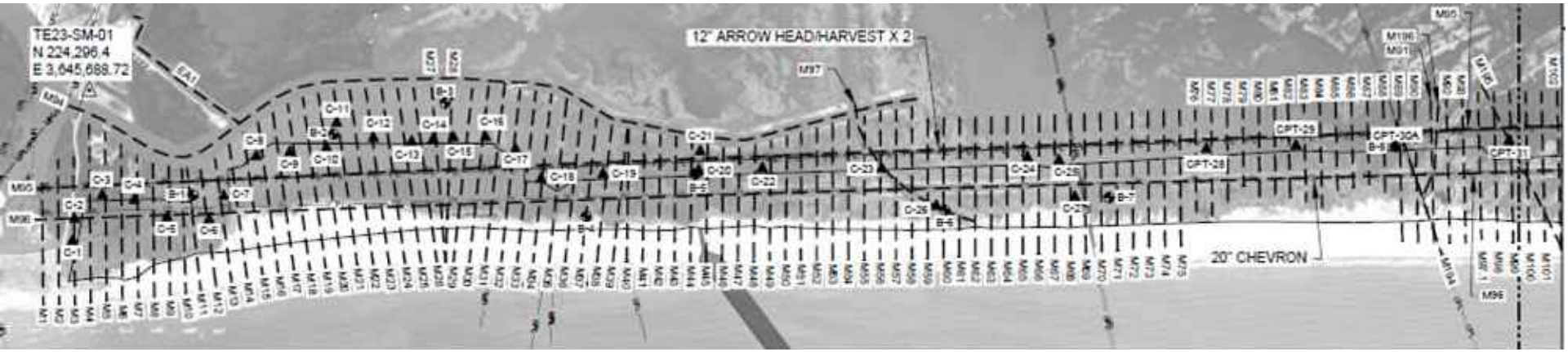


Typical Marsh Creation Area Sections

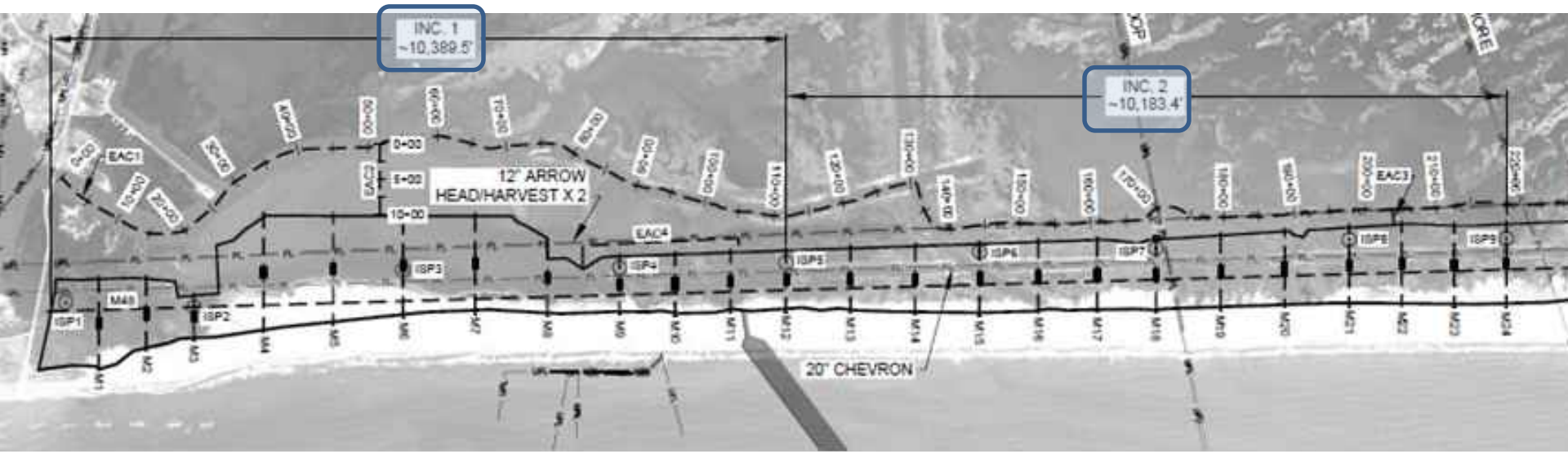


Surveys – Western Fill Area

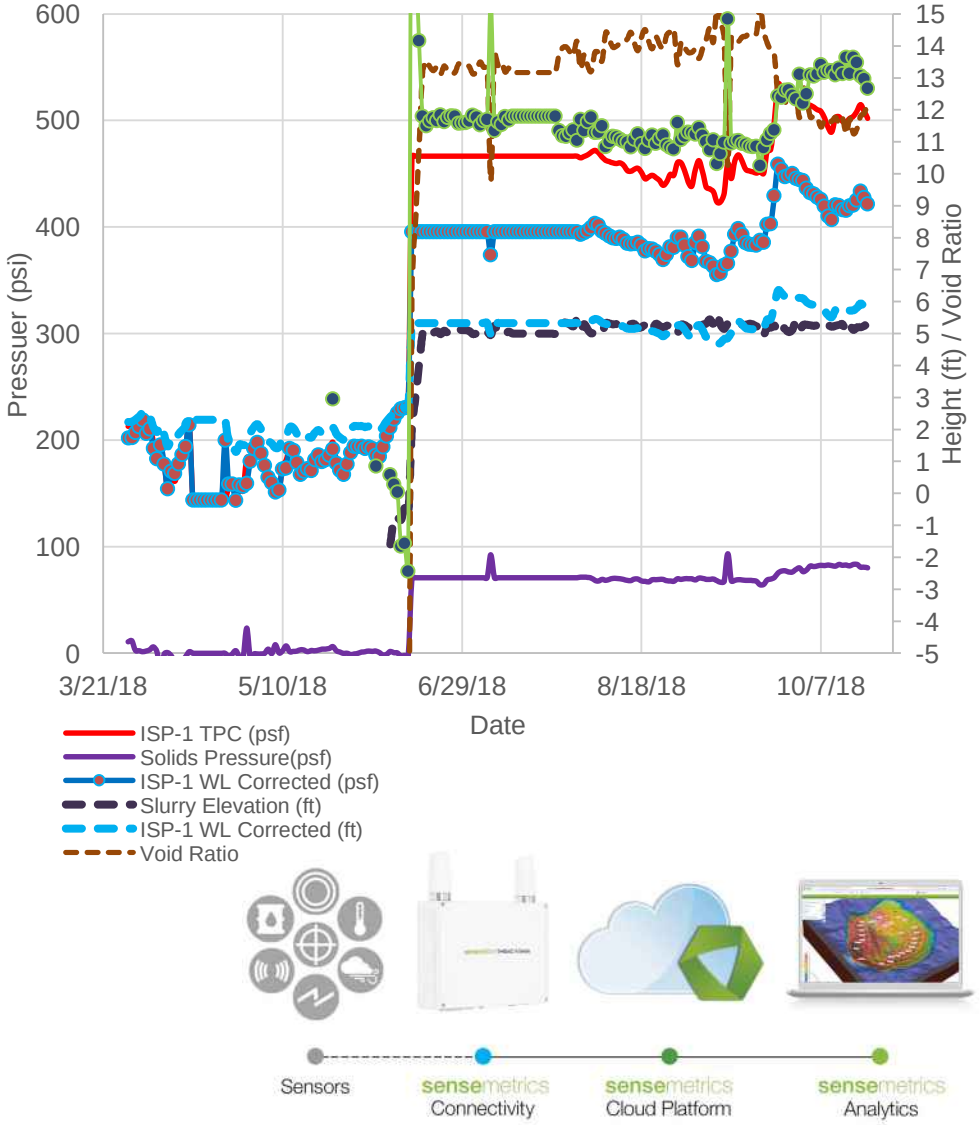
Design



Construction



Instrumented Settlement Plates (ISPs)



Caminada BA-0171

Geotechnical Construction Monitoring

Overview

- Background
- Previous Projects
- Priority Section
- Sensemetrics Overview
  - Graphs
  - Metrics
  - Maps
  - Alerts
  - Reports

Background

- Connect geotechnical design and project construction
- Dredged slurry exhibits fundamental soil behavior
- Direct correlations between pressures/stresses and slurry properties
- Pressures can be measured with instrumentation
- Data can used to fine-tune pre-construction geotechnical design parameters and predictions
  - Reevaluate settlement curves

Theory

$$\sigma' = \sigma - \mathrm{u} = TPC - PZ$$

Where: σ is total stress, σ' effective stress, u is pore pressure, TPC is the total pressure cell reading, and PZ is the vibrating wire piezometer reading.

In a slurry: Total Stress = Soil + Water Pore Pressure = Water

Prior to Dredging

(Existing Conditions)

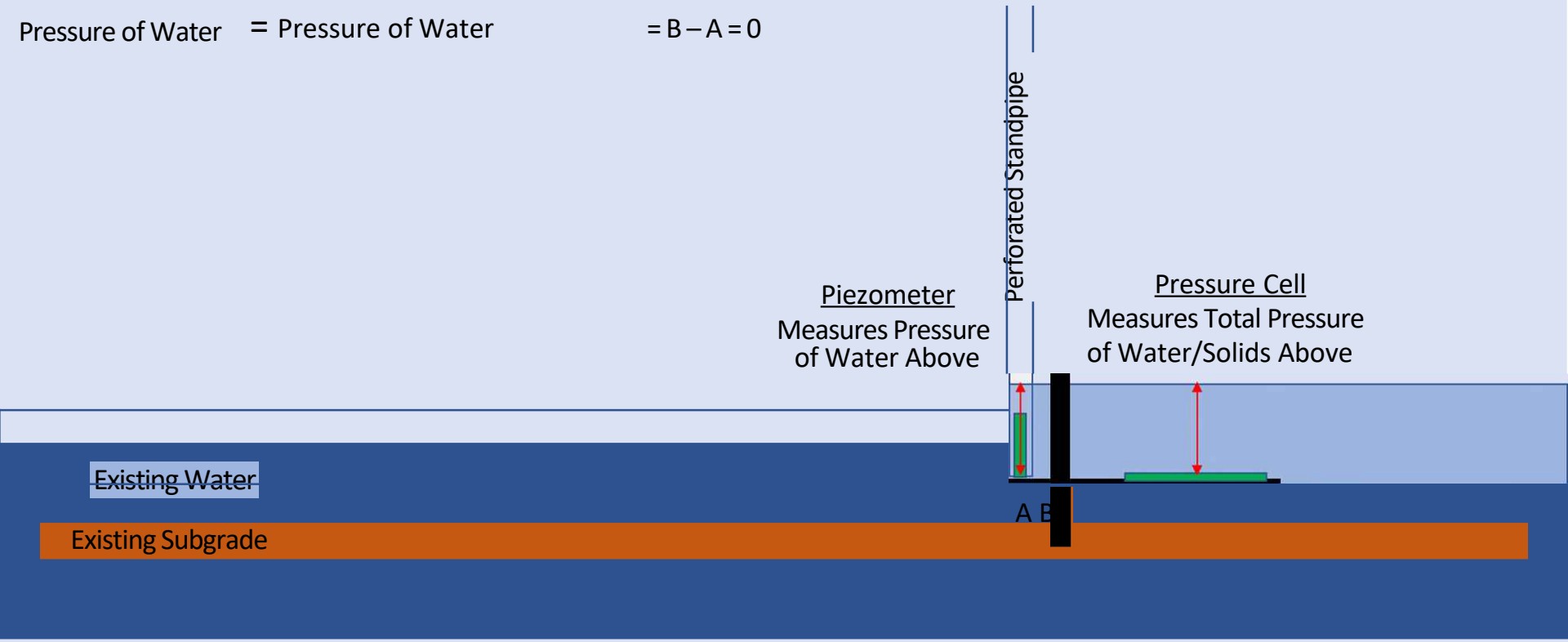
Wireless
Transmission of Data
to Dashboard

SP

A. Piezometer

B. Pressure Cell Pressure of Solids

Pressure of Water = Pressure of Water = B – A = 0

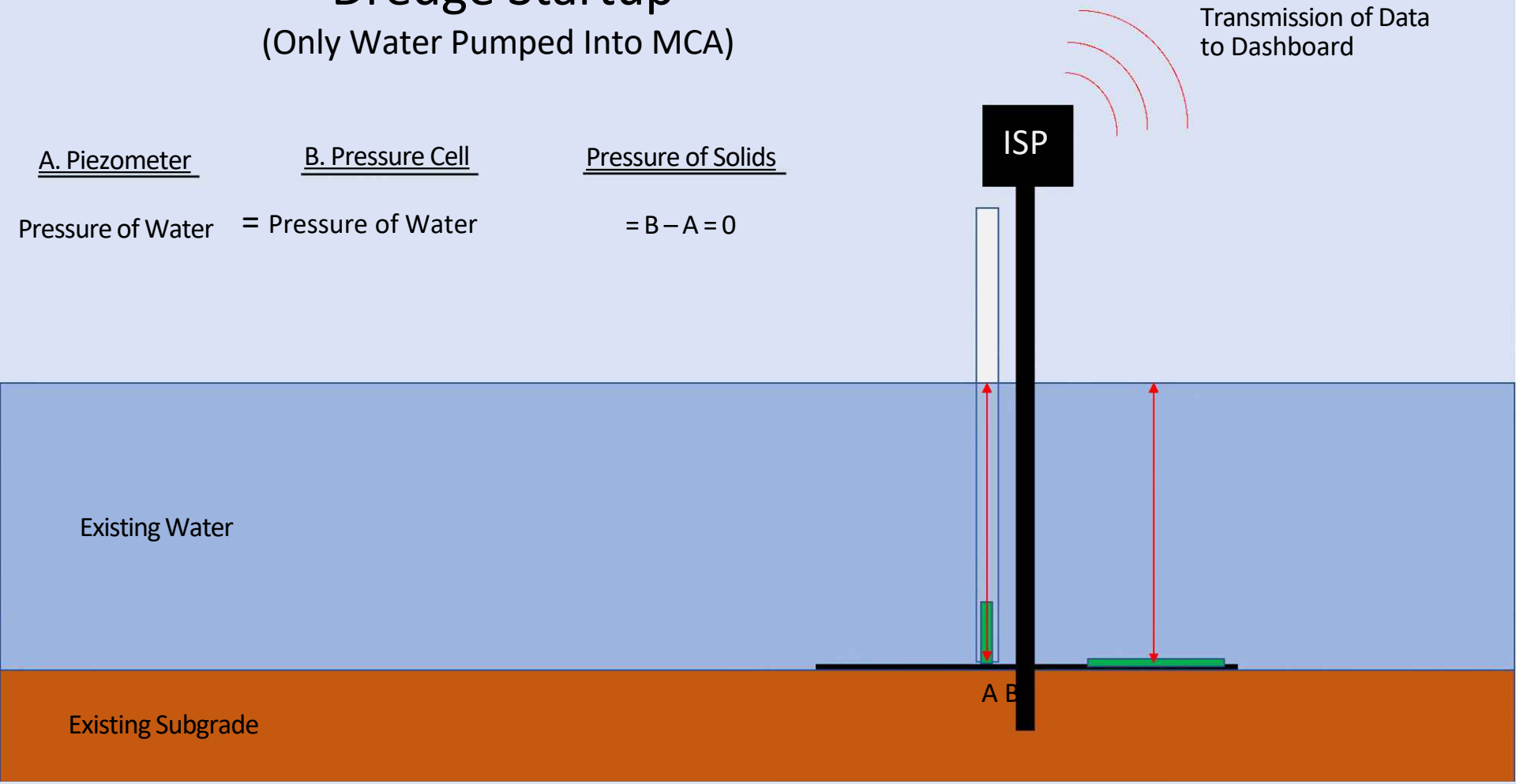


Dredge Startup

(Only Water Pumped Into MCA)

Wireless Transmission of Data to Dashboard

A. Piezometer	B. Pressure Cell	Pressure of Solids
Pressure of Water	= Pressure of Water	= B – A = 0

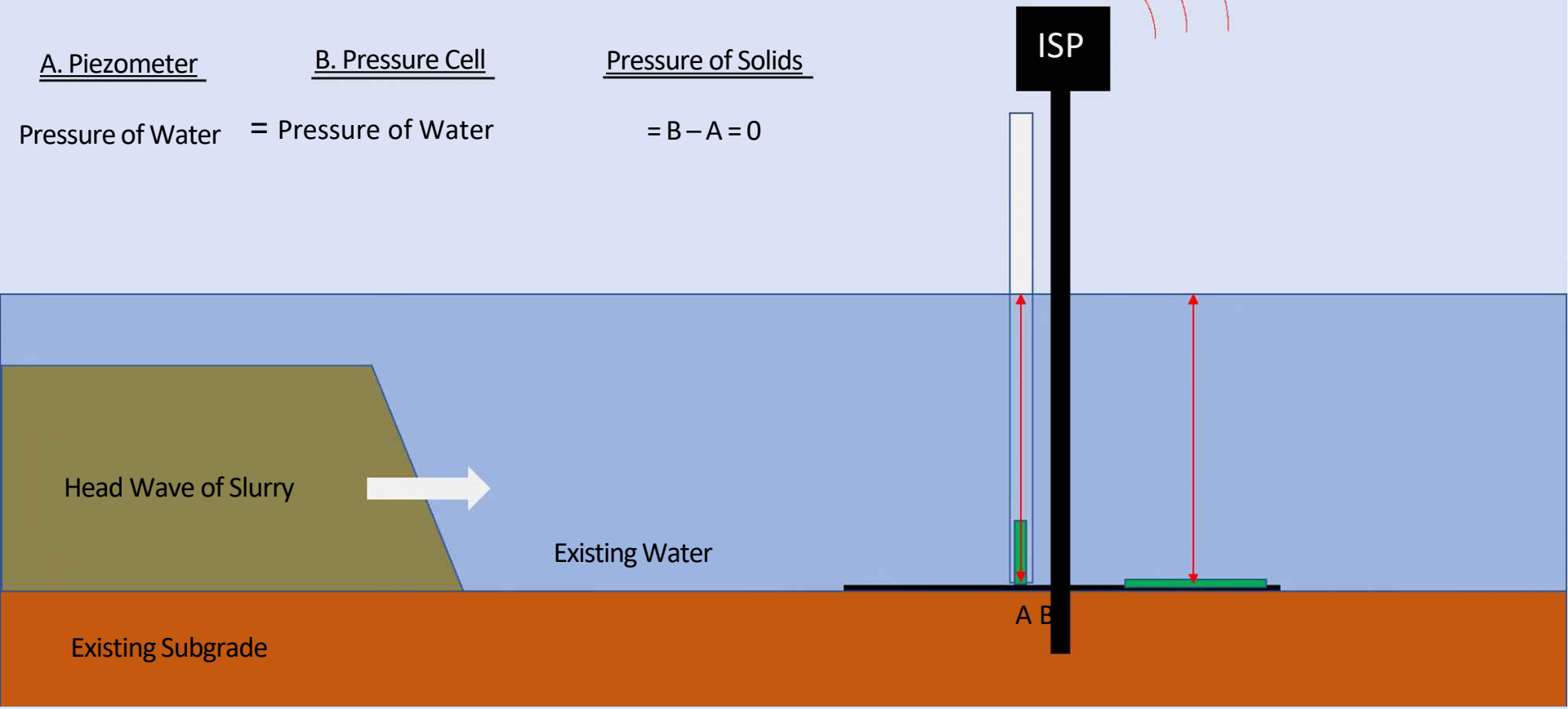


Dredge Pumping

(Slurry Head Wave Advances Across MCA)

Wireless
Transmission of Data
to Dashboard

A. Piezometer	B. Pressure Cell	Pressure of Solids
Pressure of Water	= Pressure of Water	= B – A = 0

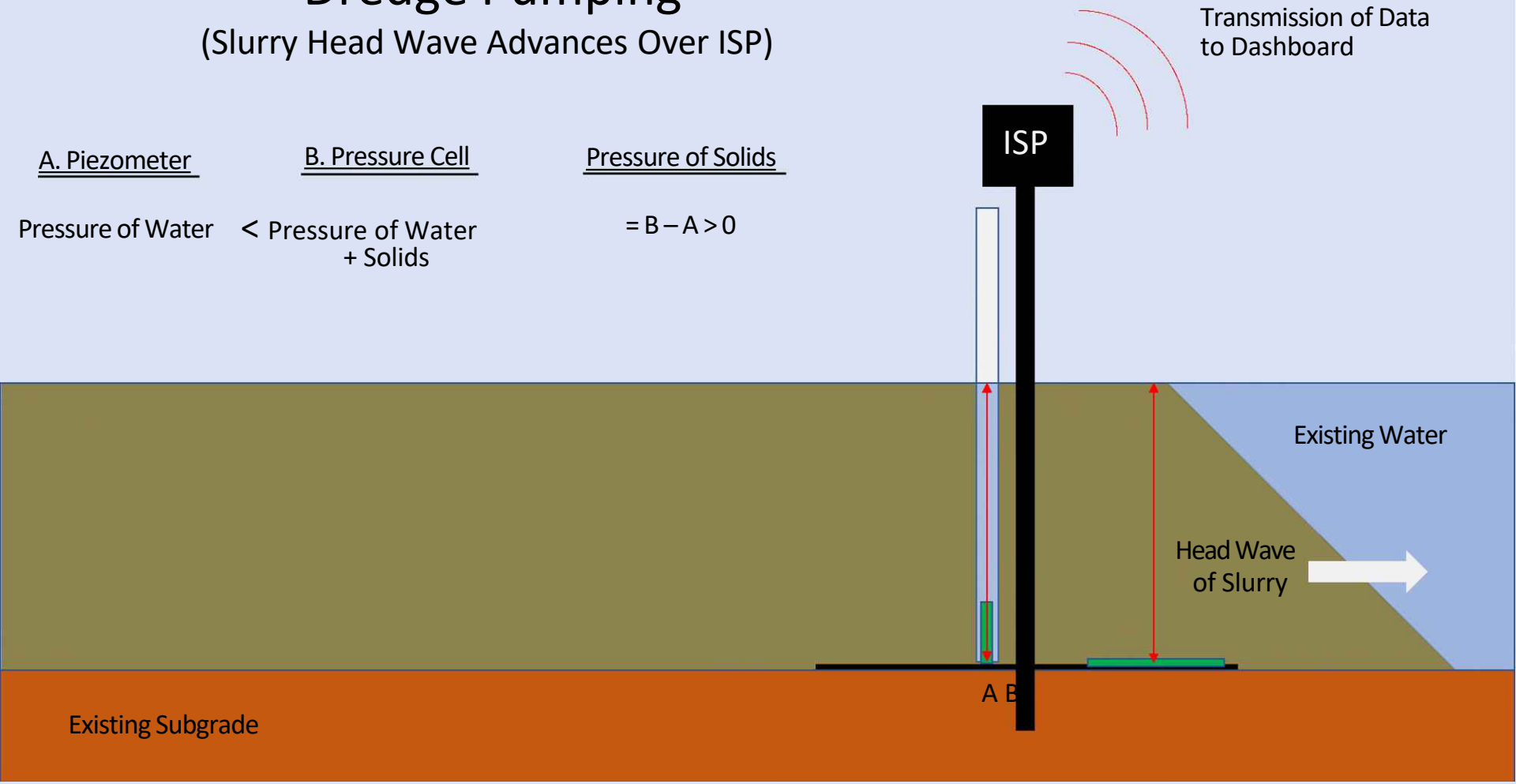


Dredge Pumping

(Slurry Head Wave Advances Over ISP)

Wireless
Transmission of Data
to Dashboard

A. Piezometer	B. Pressure Cell	Pressure of Solids
Pressure of Water	< Pressure of Water + Solids	= B – A > 0

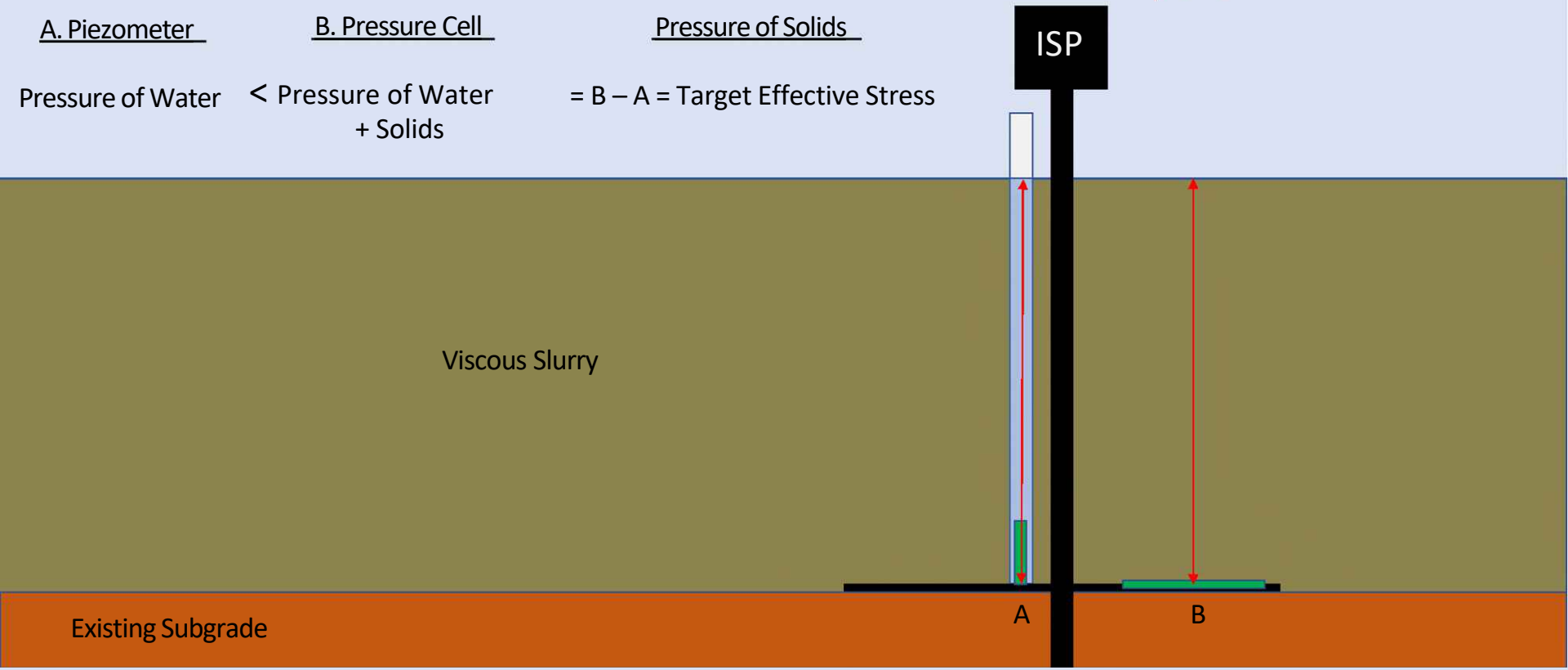


Dredge Pumping

(Height of Slurry Increases and Subgrade Settles)

Wireless
Transmission of Data
to Dashboard

A. Piezometer	B. Pressure Cell	Pressure of Solids
Pressure of Water	< Pressure of Water + Solids	= B – A = Target Effective Stress

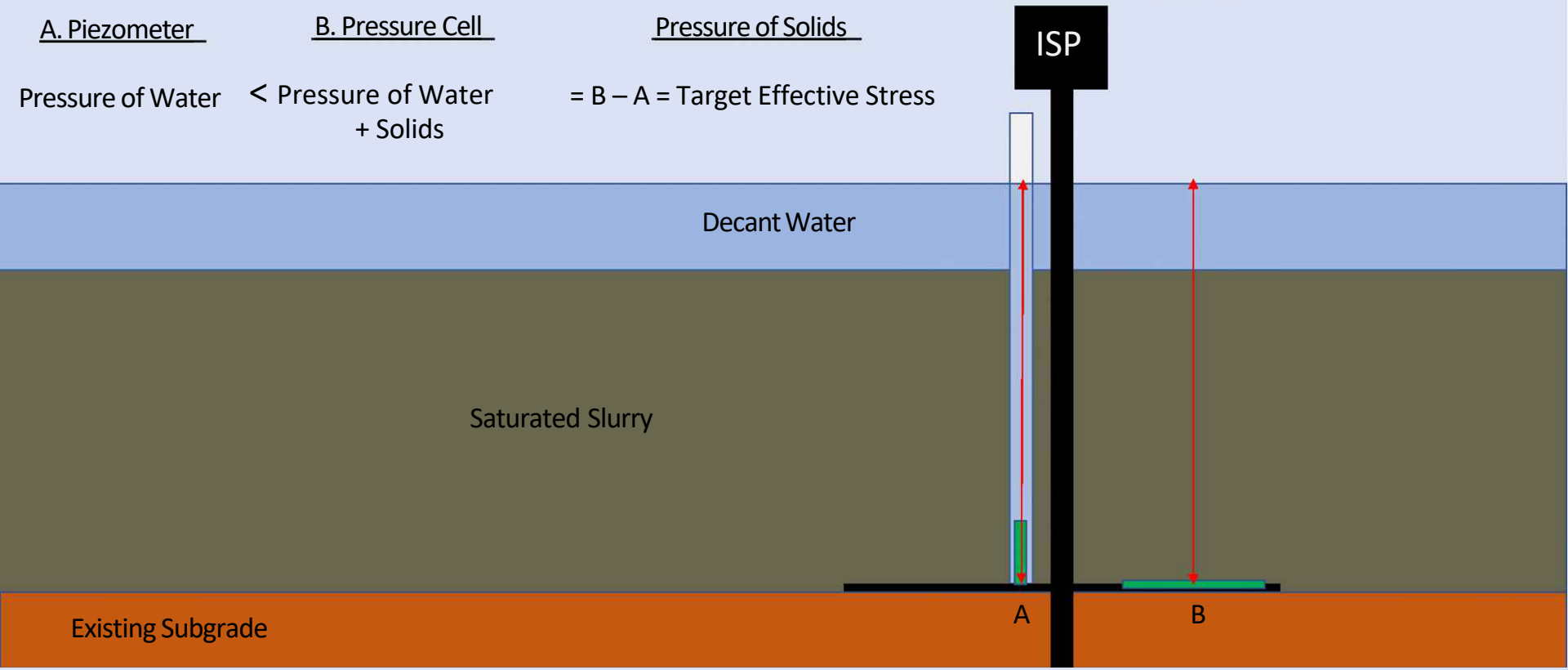


Dredge Stopped

(Excess Water Drains from MCA and Slurry Begins Consolidation)

Wireless
Transmission of Data
to Dashboard

A. Piezometer	B. Pressure Cell	Pressure of Solids
Pressure of Water	< Pressure of Water + Solids	= B – A = Target Effective Stress

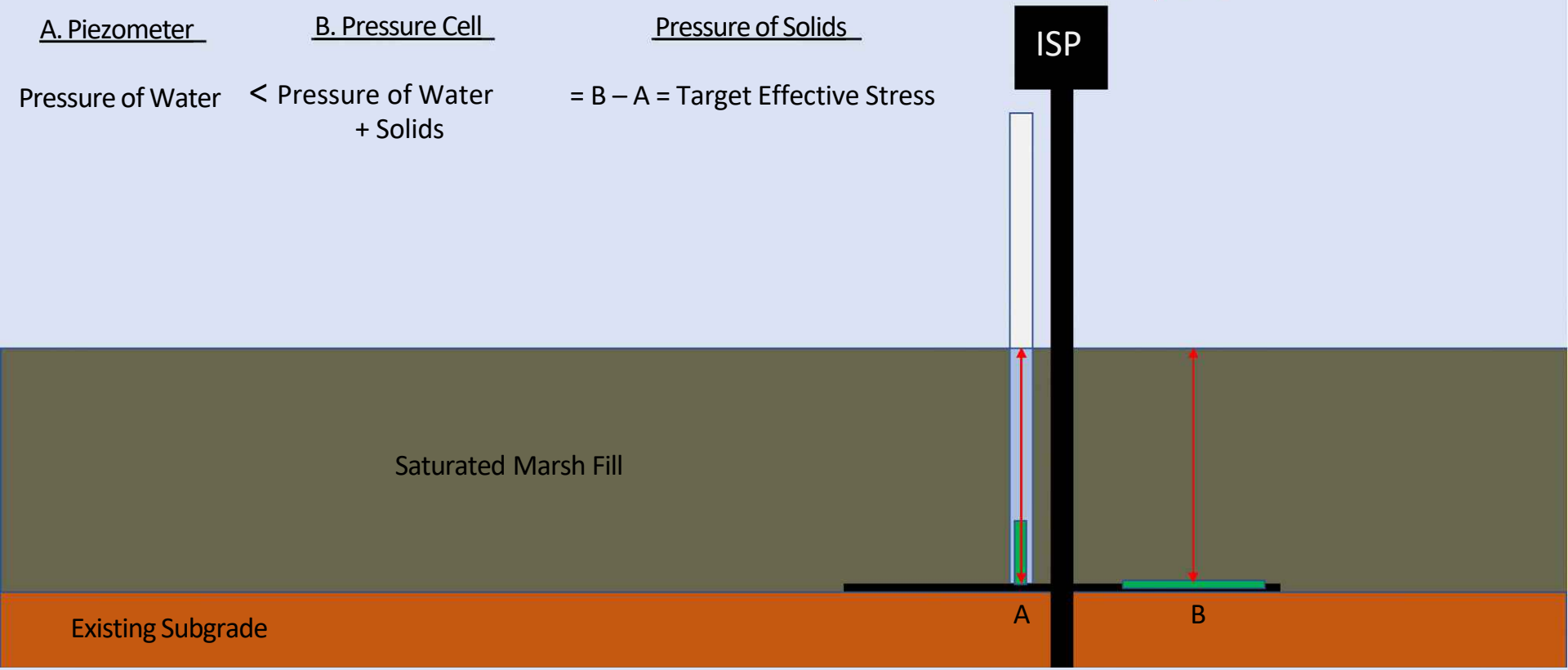


Post Construction

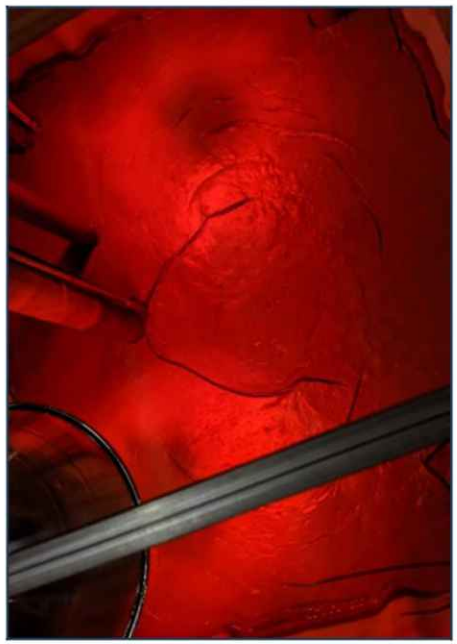
(Slurry Consolidates and Elevation Decreases Over Time)

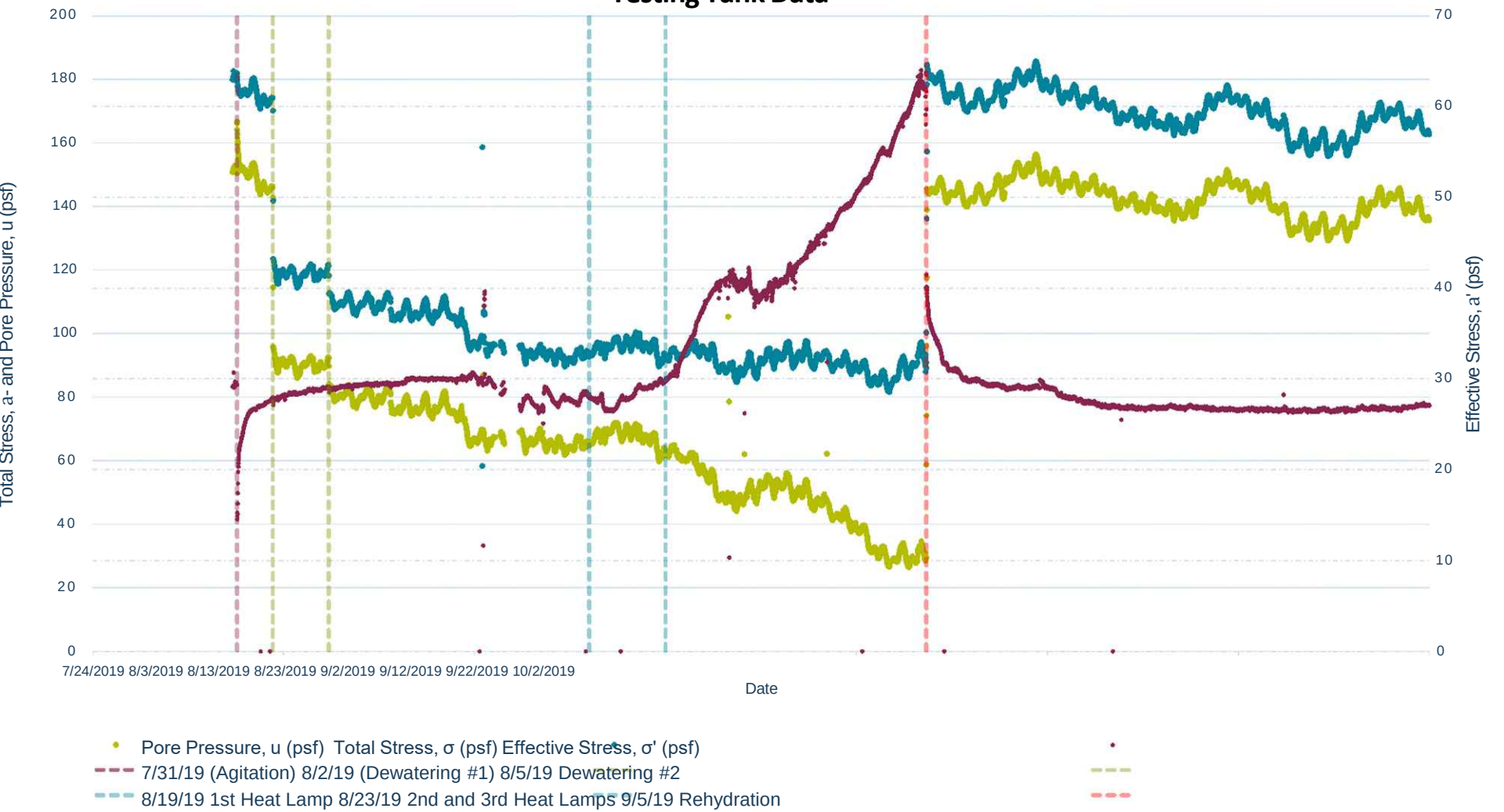
Wireless Transmission of Data to Dashboard

A. Piezometer	B. Pressure Cell	Pressure of Solids
Pressure of Water	< Pressure of Water + Solids	= B – A = Target Effective Stress



Instrumented Settlement Tank (IST)



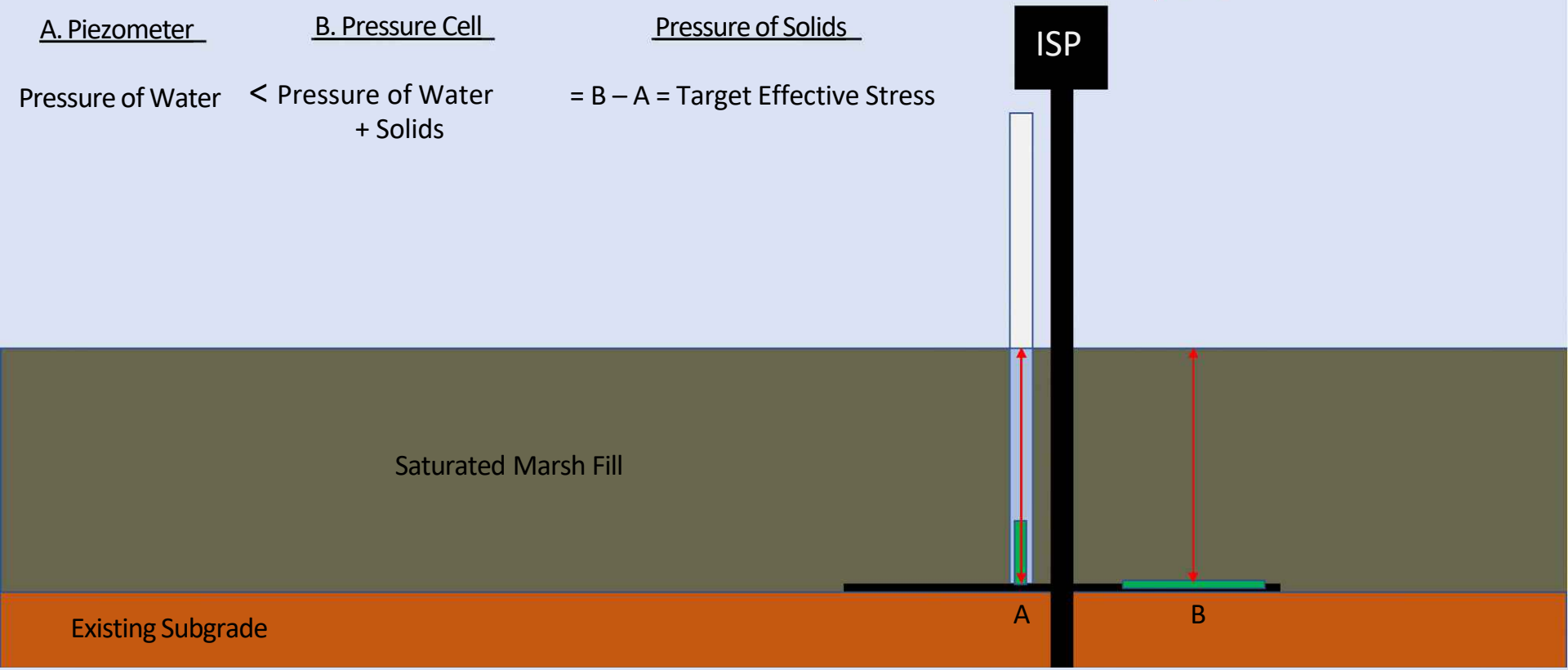

Testing Tank Data
Total Stress, σ- and Pore Pressure, u (psf)
Effective Stress, σ' (psf)
200
180
160
140
120
100
80
60
40
20
0
70
60
50
40
30
20
10
0
7/24/2019 8/3/2019 8/13/2019 8/23/2019 9/2/2019 9/12/2019 9/22/2019 10/2/2019
Date
Pore Pressure, u (psf) Total Stress, σ (psf) Effective Stress, σ' (psf)
7/31/19 (Agitation) 8/2/19 (Dewatering #1) 8/5/19 Dewatering #2
8/19/19 1st Heat Lamp 8/23/19 2nd and 3rd Heat Lamps 9/5/19 Rehydration

Post Construction

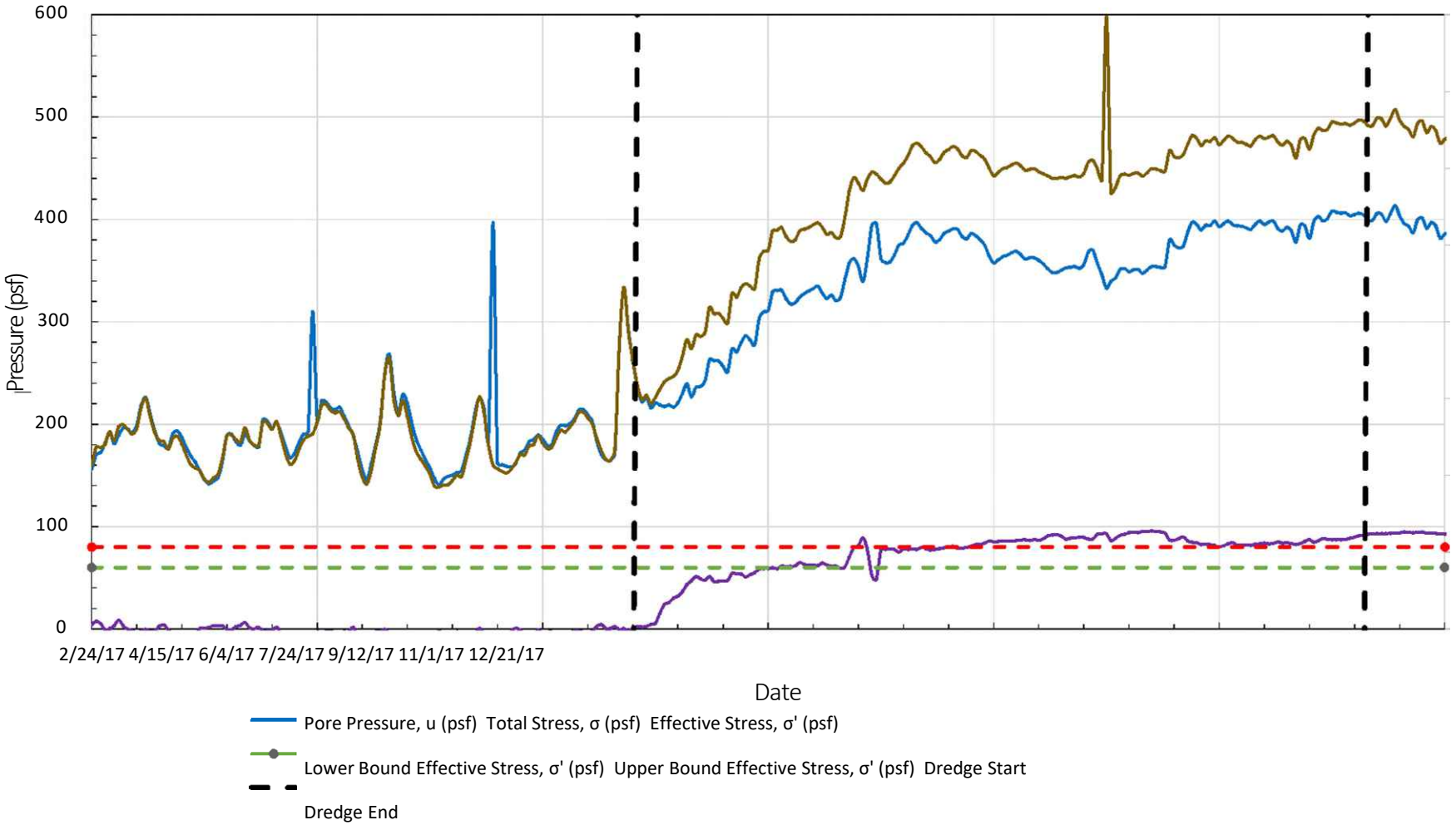
(Slurry Consolidates and Elevation Decreases Over Time)

Wireless Transmission of Data to Dashboard

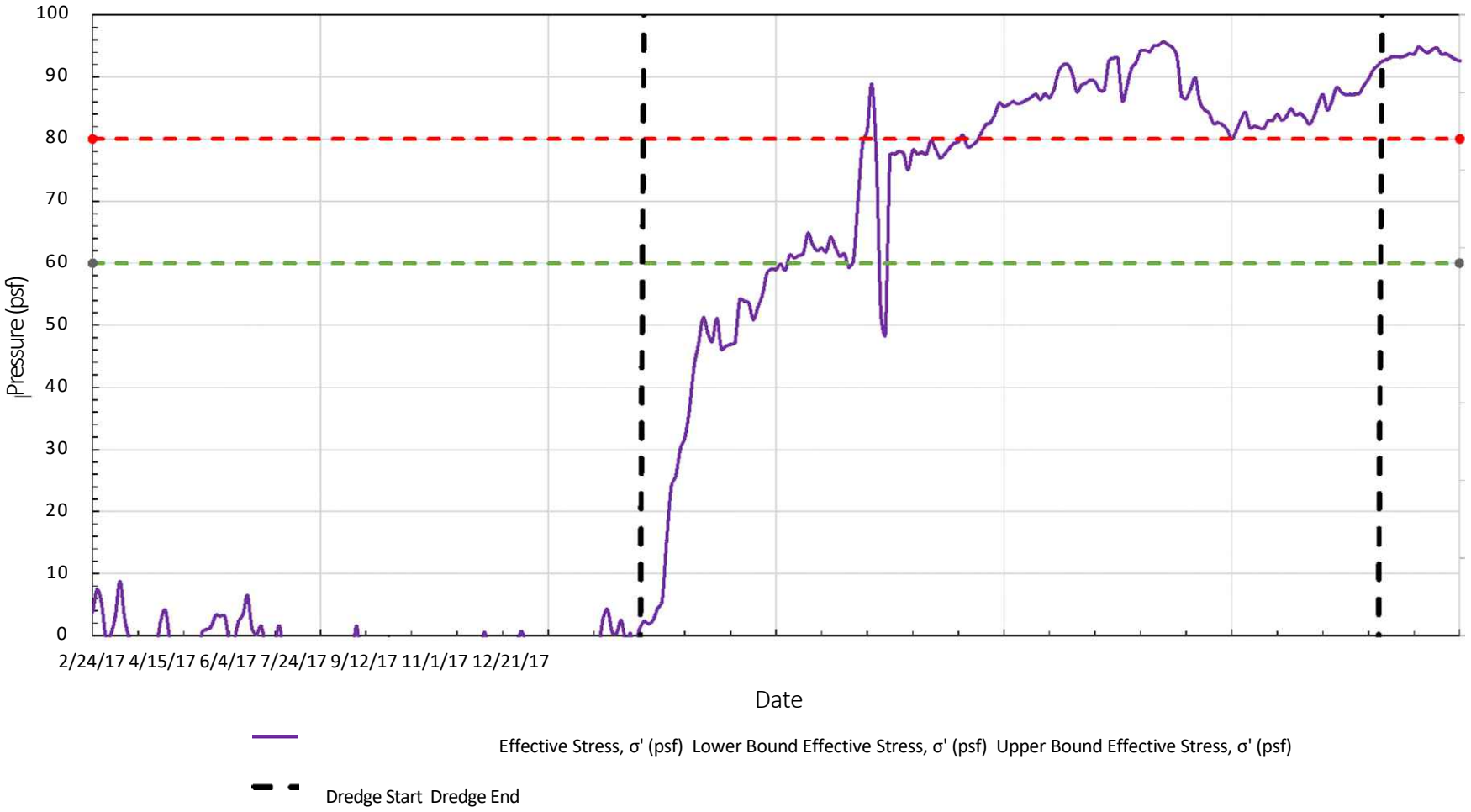
A. Piezometer	B. Pressure Cell	Pressure of Solids
Pressure of Water	< Pressure of Water + Solids	= B – A = Target Effective Stress

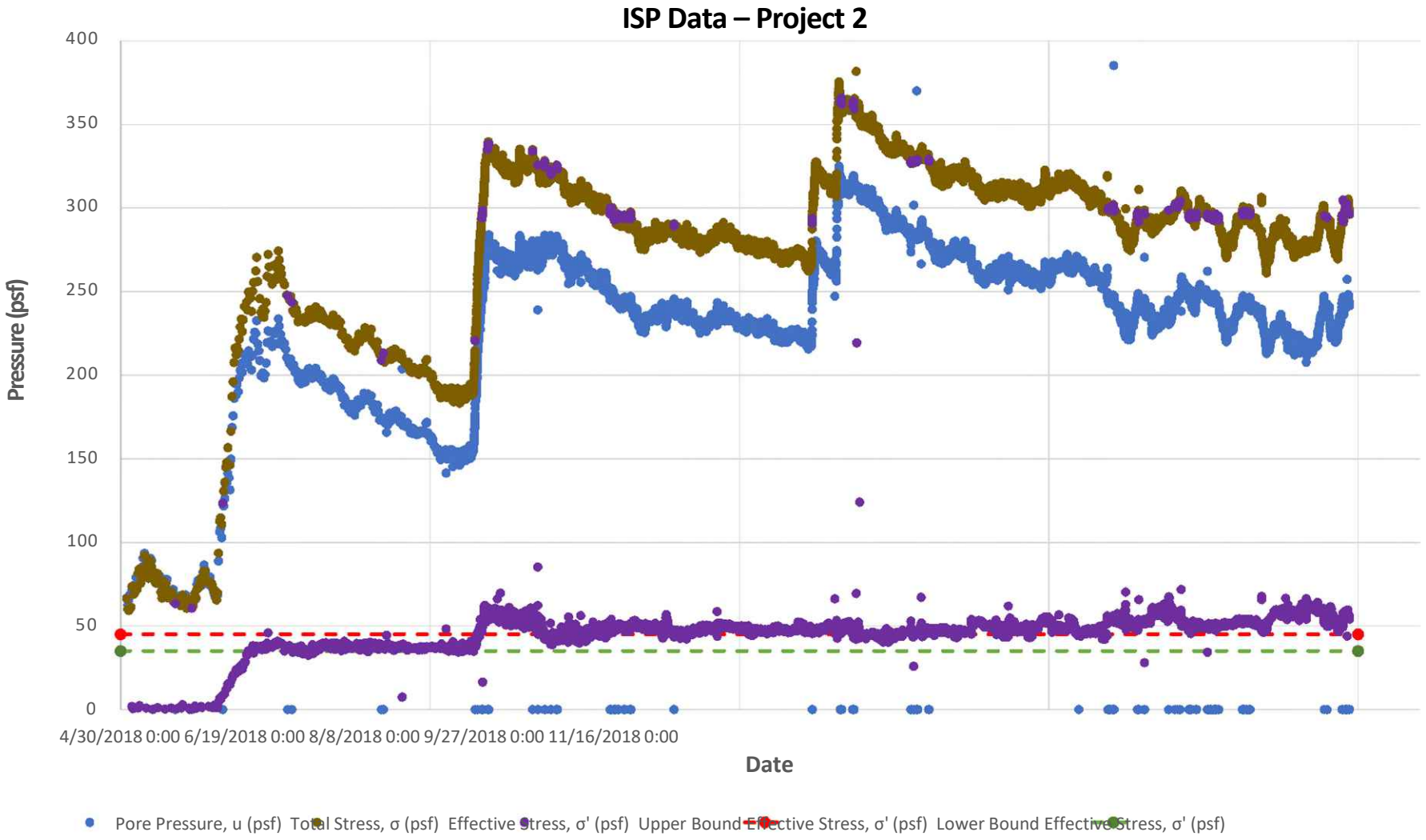


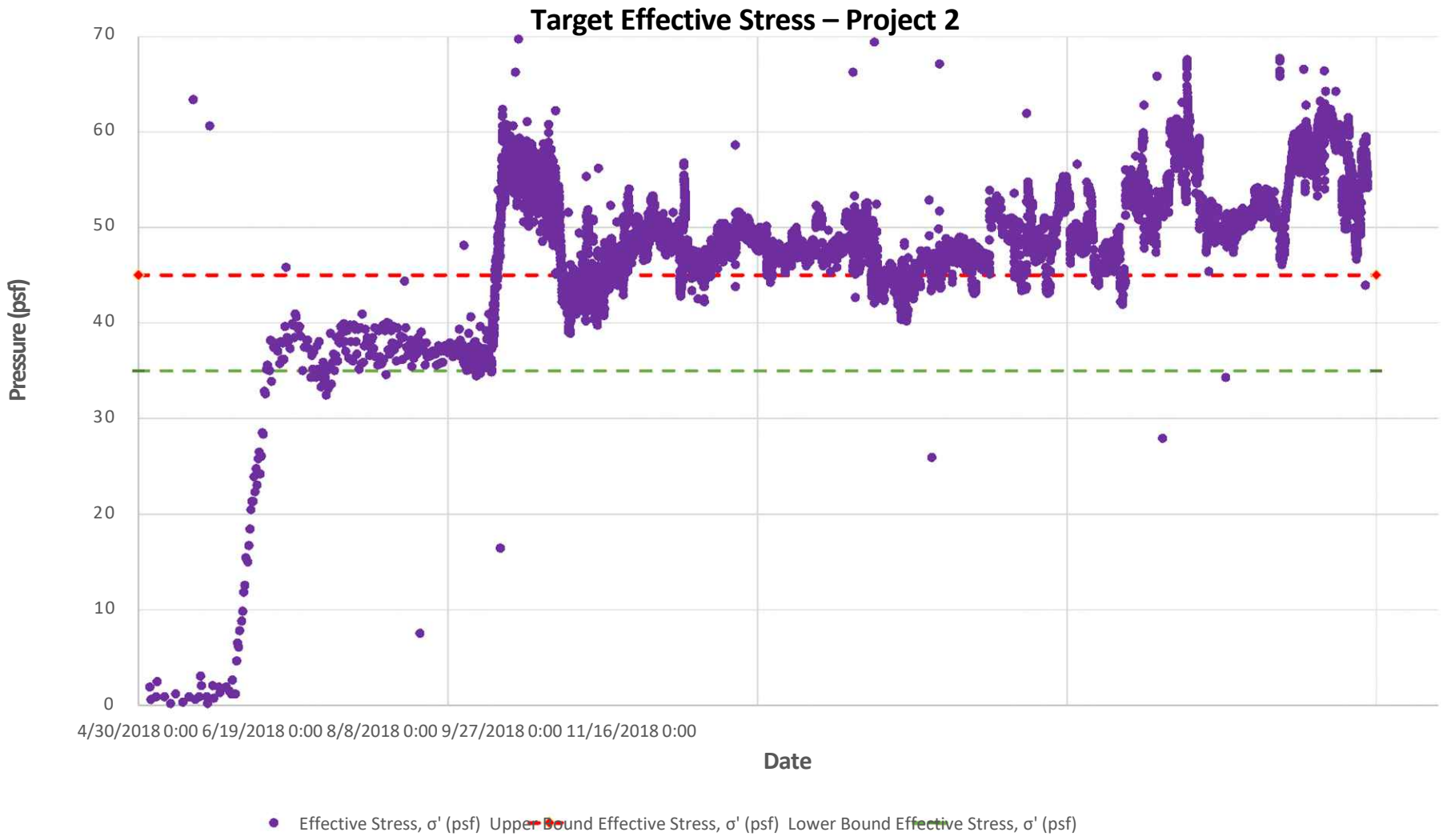
ISP Data –Project 1



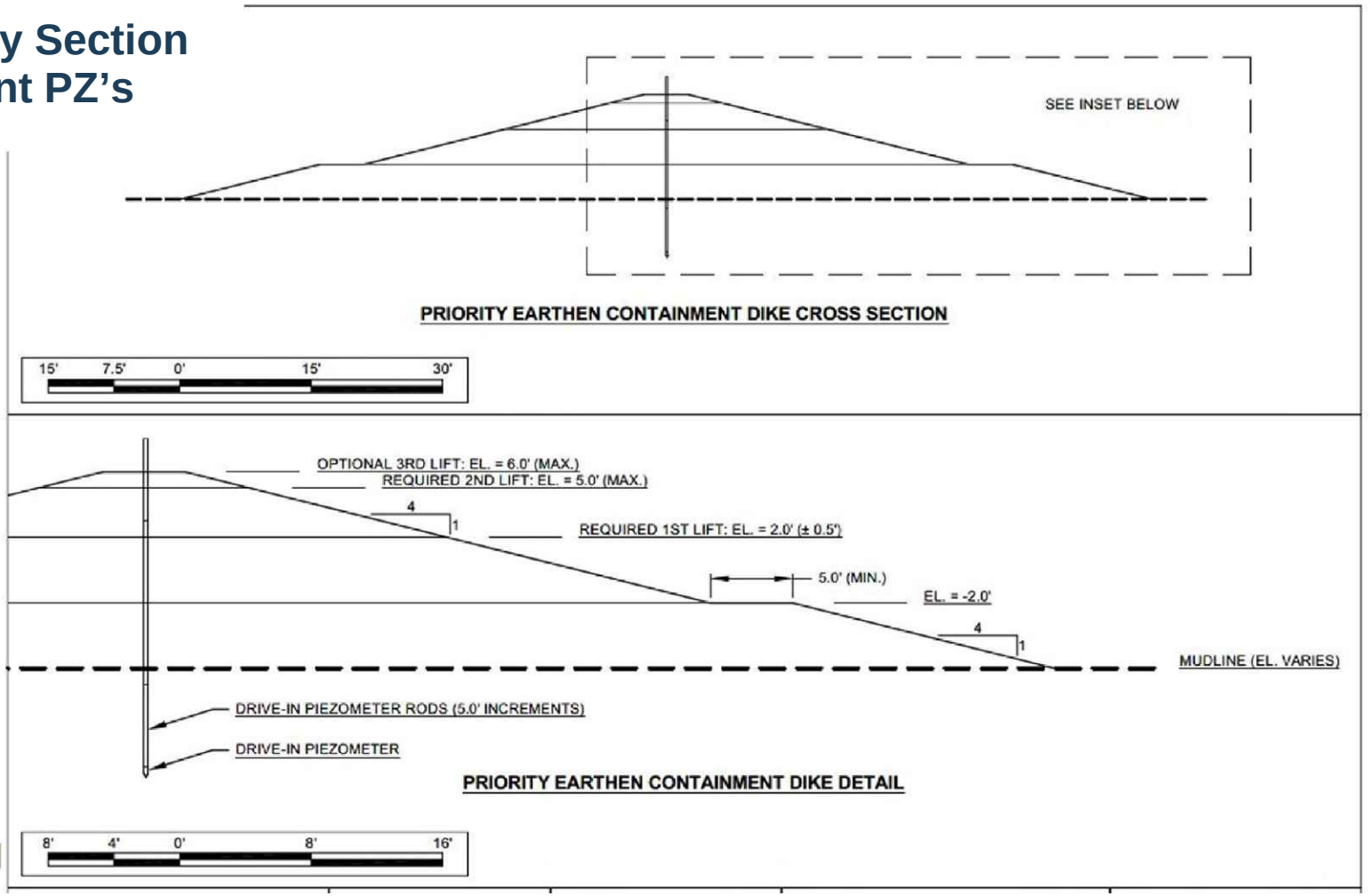
Target Effective Stress – Project 1

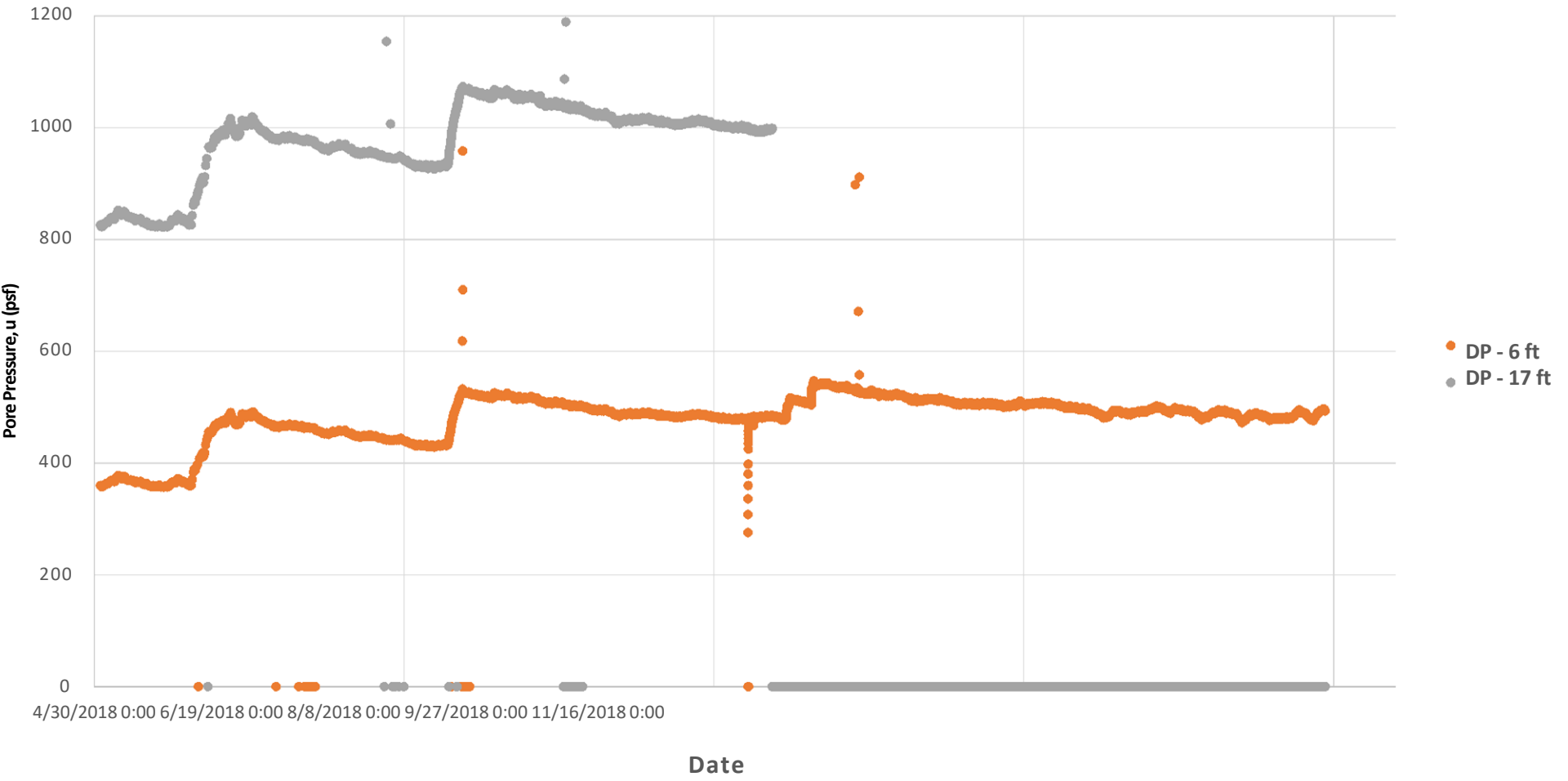


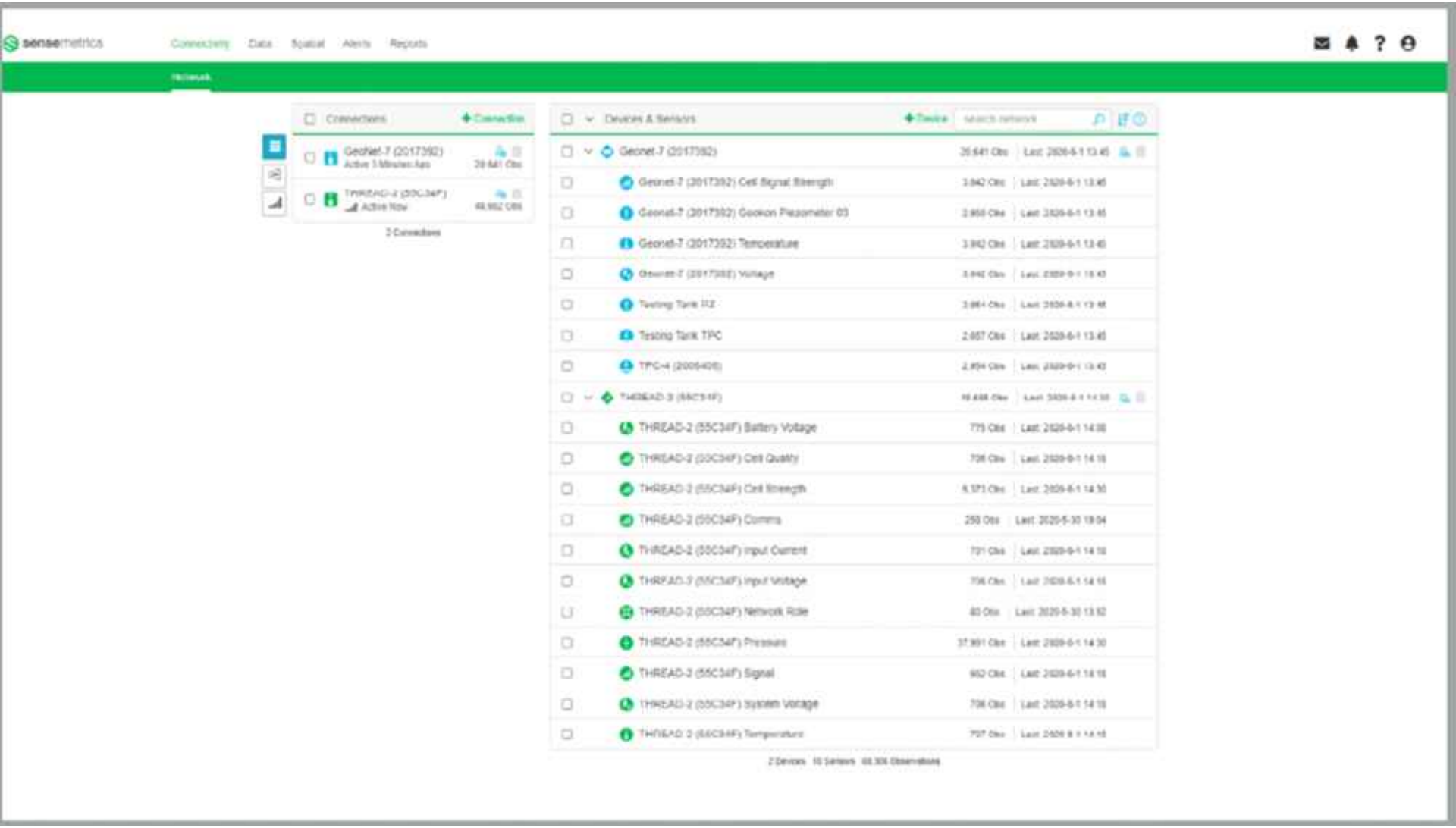

ISP Data – Project 2
Pressure (psf)
400
350
300
250
200
150
100
50
0
4/30/2018 0:00
6/19/2018 0:00
8/8/2018 0:00
9/27/2018 0:00
11/16/2018 0:00
Date
Pore Pressure, u (psf)
Total Stress, σ (psf)
Effective Stress, σ' (psf)
Upper Bound Effective Stress, σ' (psf)
Lower Bound Effective Stress, σ' (psf)

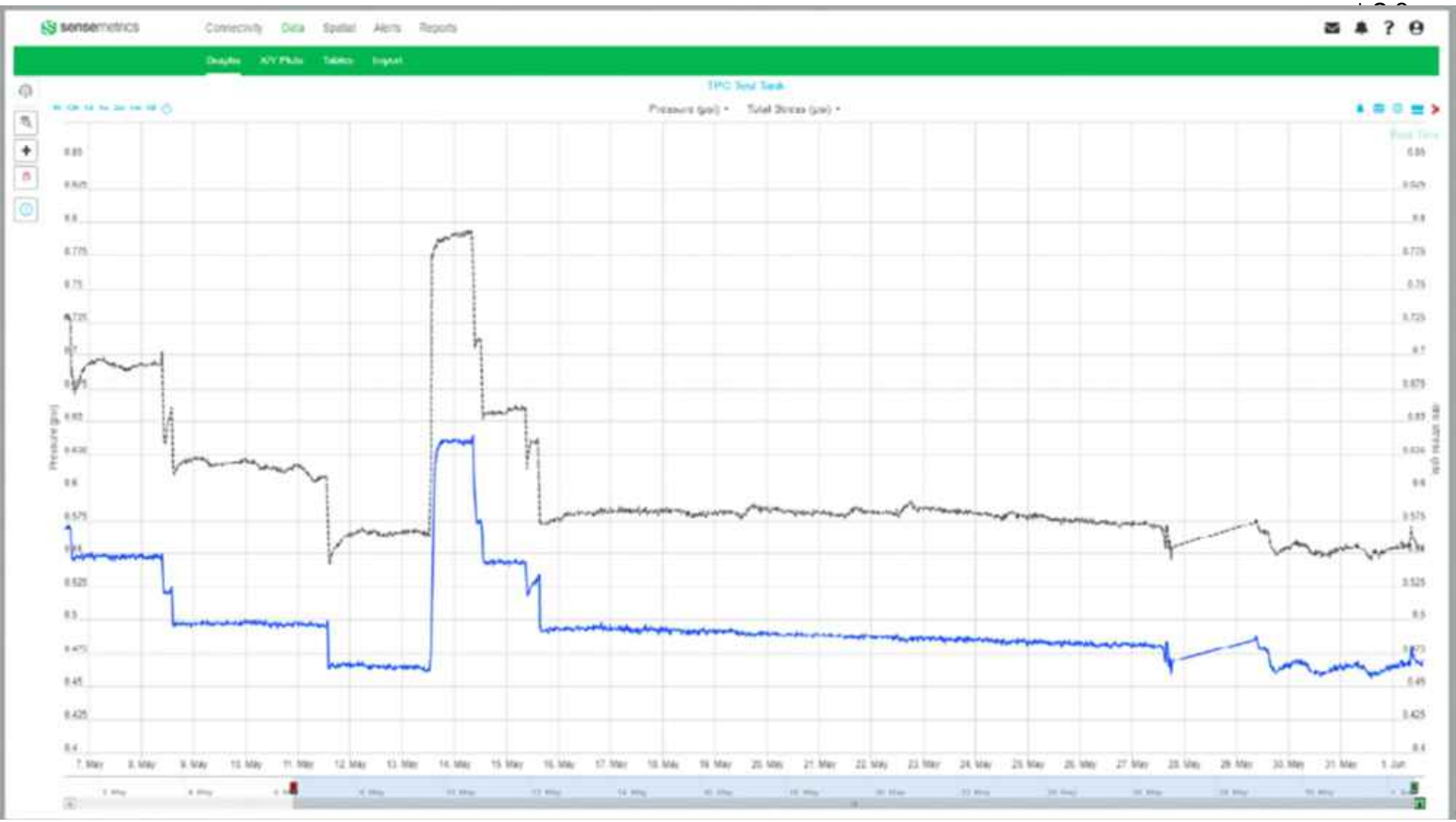

Target Effective Stress – Project 2
Pressure (psf)
70
60
50
40
30
20
10
0
4/30/2018 0:00
6/19/2018 0:00
8/8/2018 0:00
9/27/2018 0:00
11/16/2018 0:00
Date
Effective Stress, σ' (psf)
Upper Bound Effective Stress, σ' (psf)
Lower Bound Effective Stress, σ' (psf)

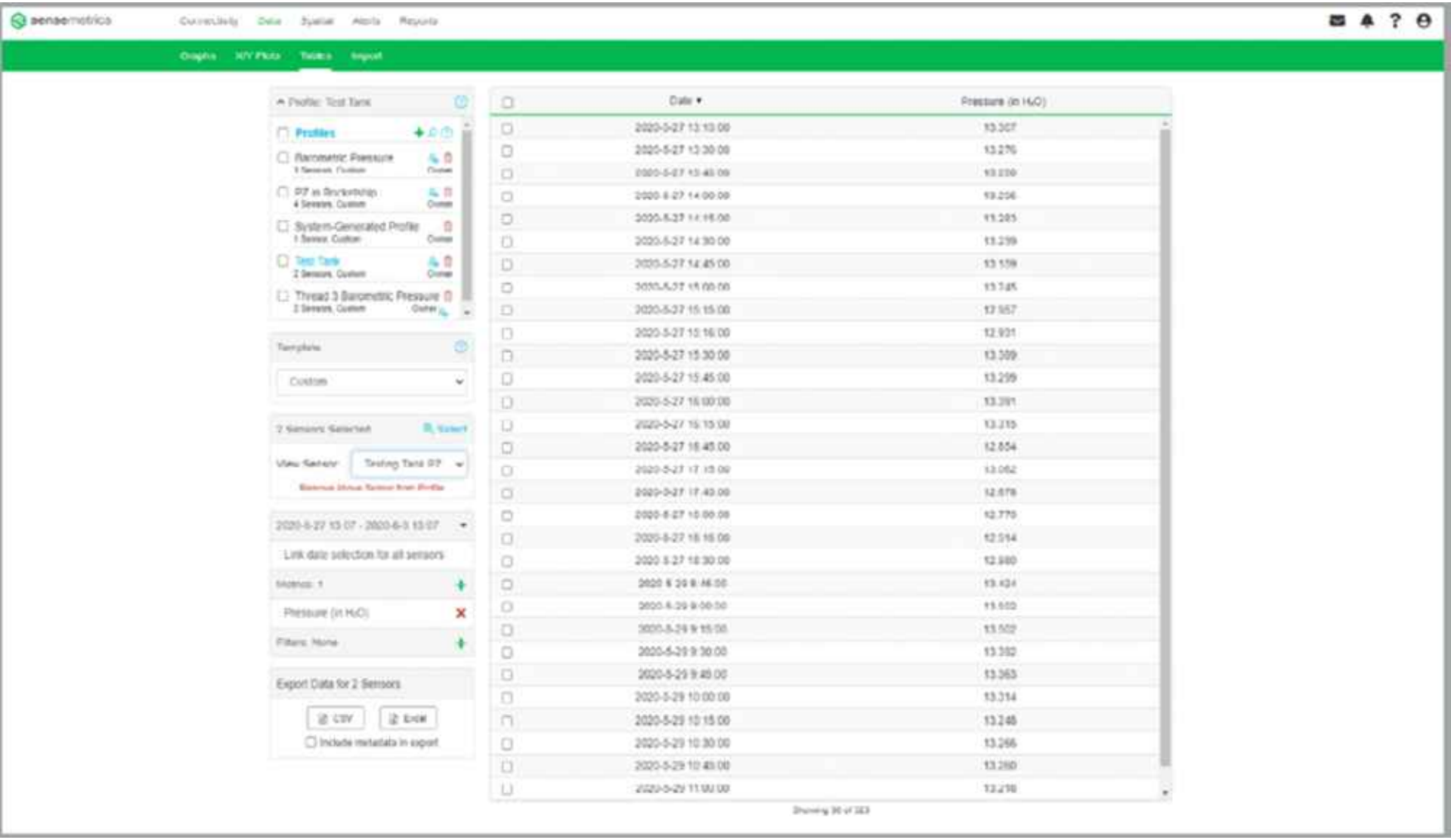
ECD Priority Section – Drive Point PZ's




Drive Point Piezometer Data
1200
1000
800
600
400
200
0
Pore Pressure, u (psf)
4/30/2018 0:00
6/19/2018 0:00
8/8/2018 0:00
9/27/2018 0:00
11/16/2018 0:00
Date
DP - 6 ft
DP - 17 ft


sensemetrics
Connectivity
Data
Spatial
Alerts
Reports
Connections
Geonet-7 (2017392)
Active 5 Minutes Ago
20 641 Obs
2 Connections
Devices & Sensors
Geonet-7 (2017392)
20 641 Obs
Geonet-7 (2017392) Cell Signal Strength
3 842 Obs
Geonet-7 (2017392) Geokon Piezometer 03
2 850 Obs
Geonet-7 (2017392) Temperature
3 842 Obs
Testing Tank TPC
2 857 Obs
THREAD-2 (55C34F) Battery Voltage
775 Obs
THREAD-2 (55C34F) Cell Quality
706 Obs
THREAD-2 (55C34F) Cell Strength
5 571 Obs
THREAD-2 (55C34F) Comms
250 Obs
THREAD-2 (55C34F) Input Current
721 Obs
THREAD-2 (55C34F) Network Role
80 Obs
THREAD-2 (55C34F) Pressure
37 991 Obs
THREAD-2 (55C34F) Signal
952 Obs
THREAD-2 (55C34F) System Voltage
706 Obs


sensemetrics
Connectivity
Data
Spatial
Alerts
Reports
Pressure (psi)
Total Stress (psi)


Graphs
XY Plots
Tables
Import
Profiles
Barometric Pressure
System-Generated Profile
Test Tank
Thread 3 Barometric Pressure
Custom
Link date selection for all sensors
Pressure (in H2O)
Export Data for 2 Sensors
CSV
Include metadata in export
Date
Pressure (in H2O)
2020-5-27 13:13:00 13.307
2020-5-27 13:30:00 13.276
2020-5-27 14:00:00 13.206
2020-5-27 14:30:00 13.239
2020-5-27 14:45:00 13.159
2020-5-27 15:15:00 12.957
2020-5-27 15:16:00 12.931
2020-5-27 15:30:00 13.309
2020-5-27 15:45:00 13.259
2020-5-27 16:00:00 13.391
2020-5-27 16:45:00 12.854
2020-5-27 17:40:00 12.878
2020-5-27 18:15:00 12.914
2020-5-27 18:30:00 12.980
2020-5-29 9:30:00 13.332
2020-5-29 9:45:00 13.363
2020-5-29 10:00:00 13.314
2020-5-29 10:15:00 13.248
2020-5-29 10:30:00 13.266


Water Level
Pressure (ft H2O)
Add Axis
Show Legend
Pressure (ft H2O)
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
00:00
12:00
25 May
12:00
26 May
12:00
27 May
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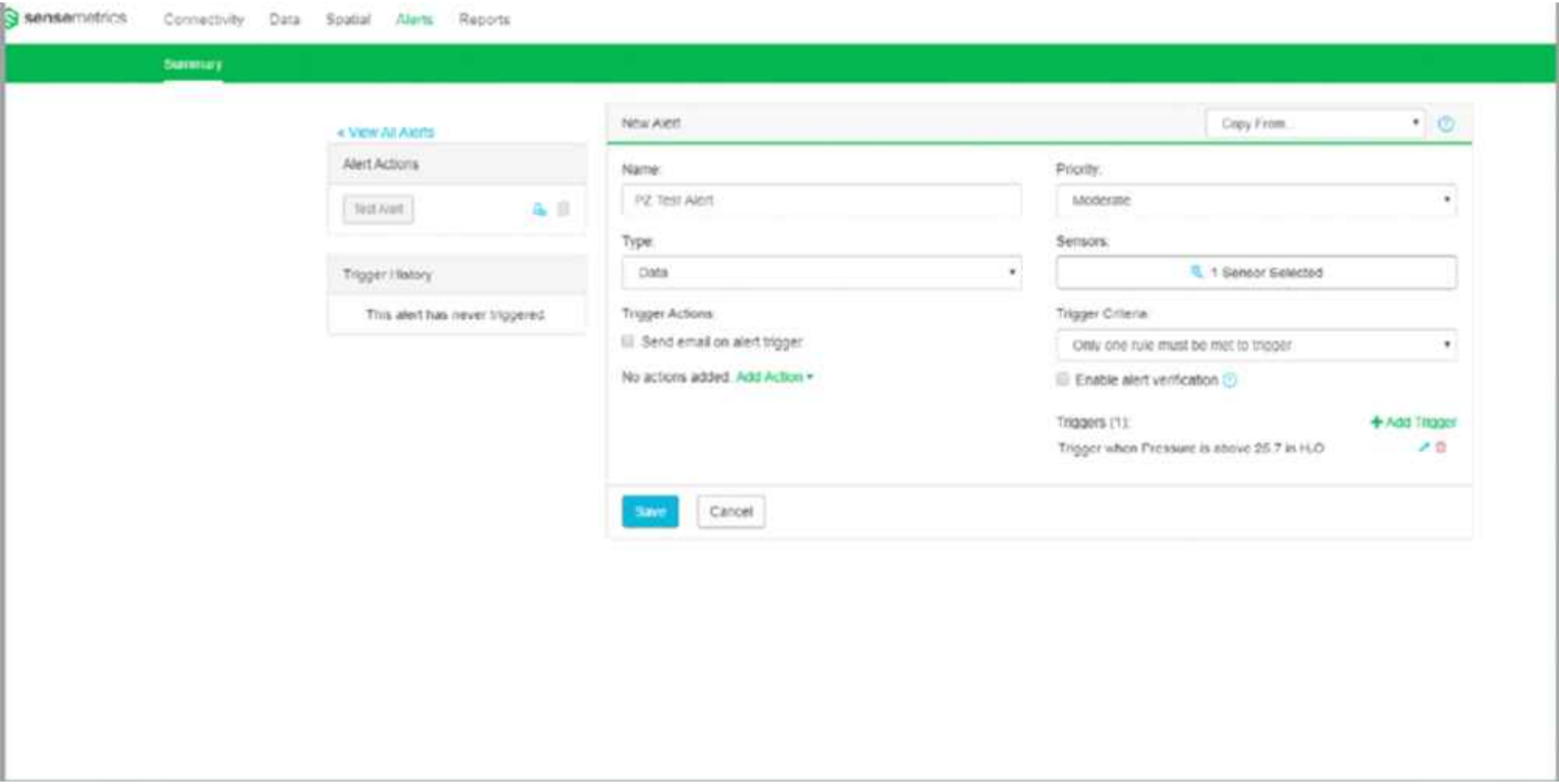
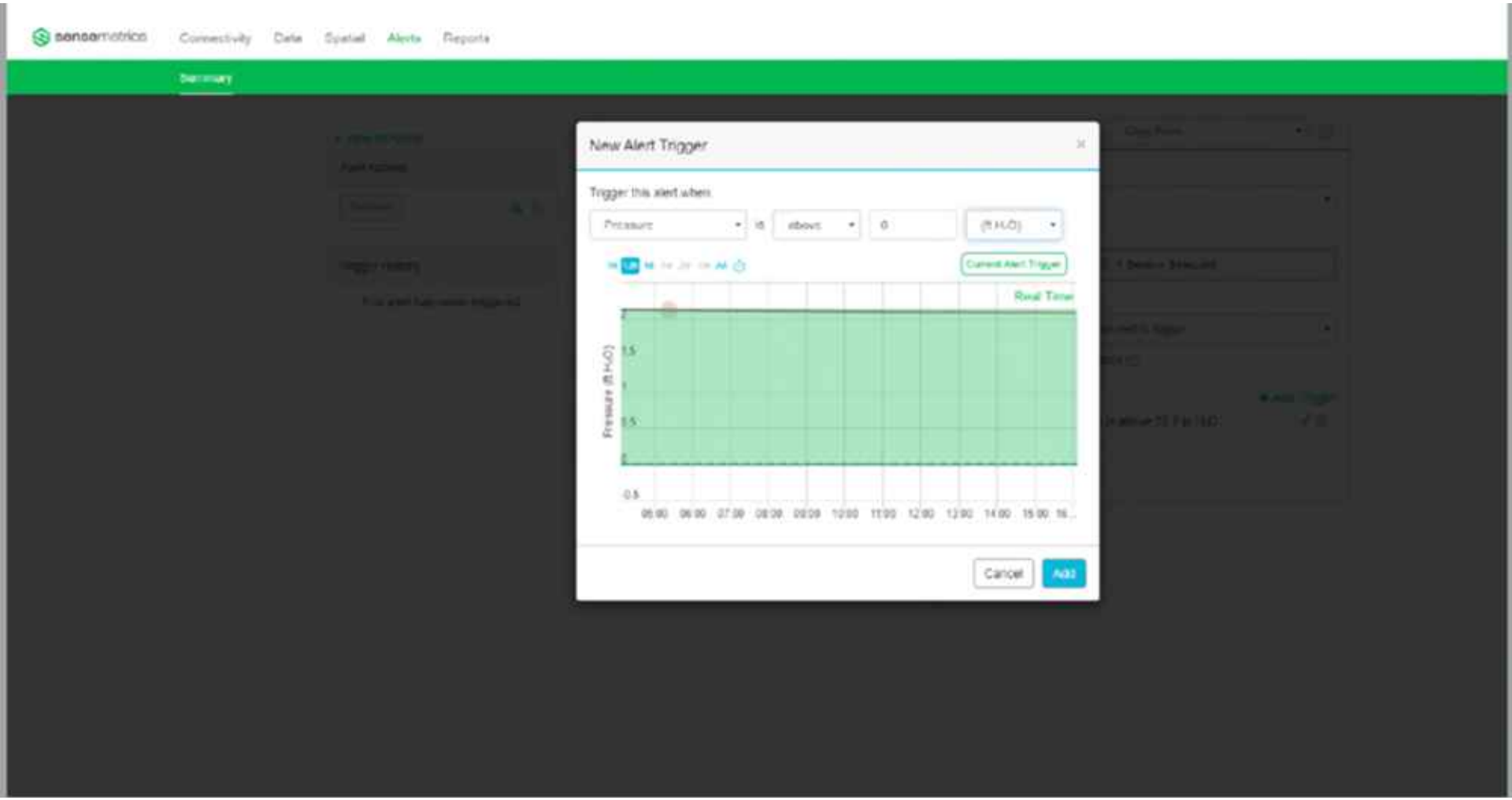
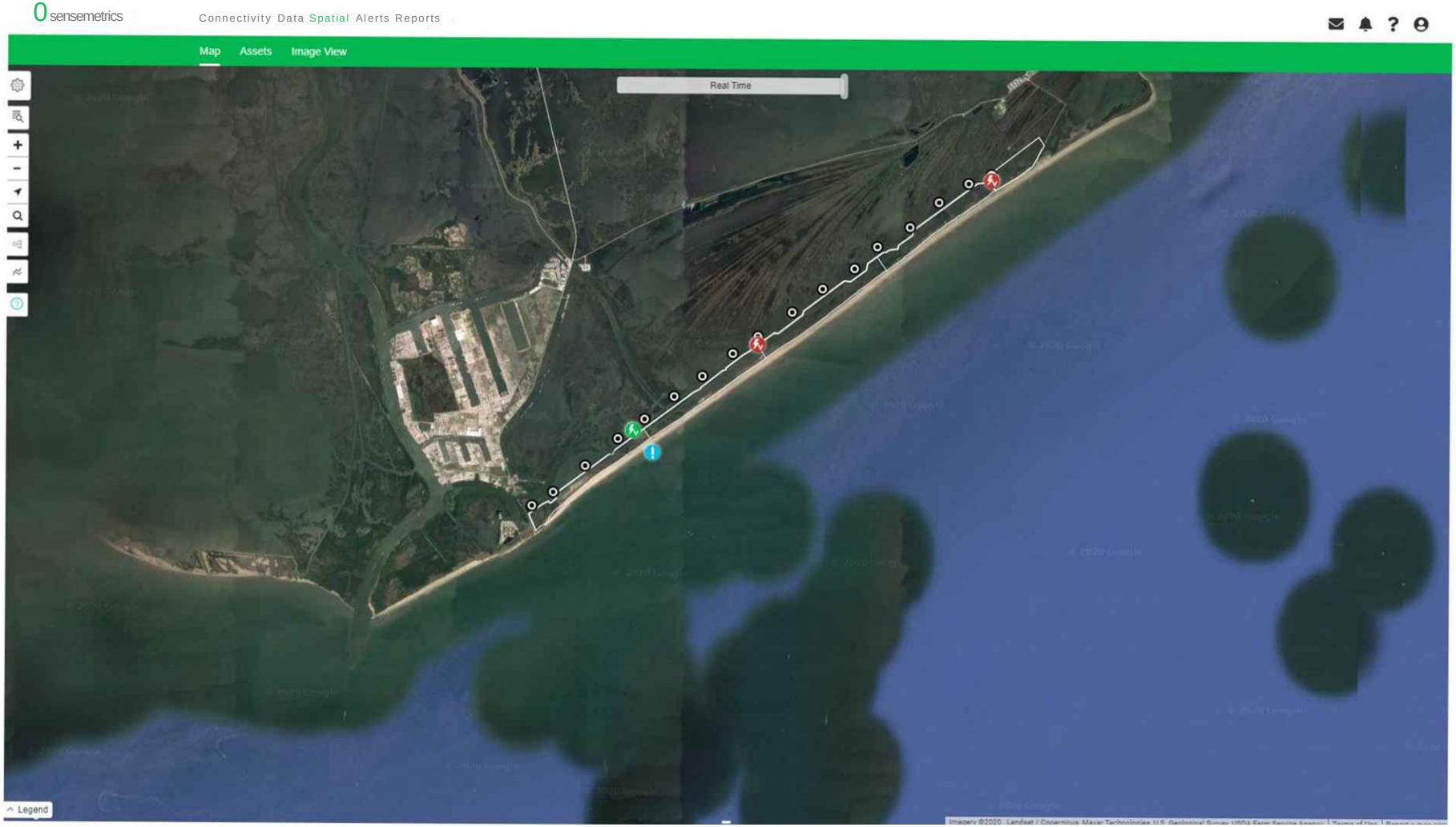
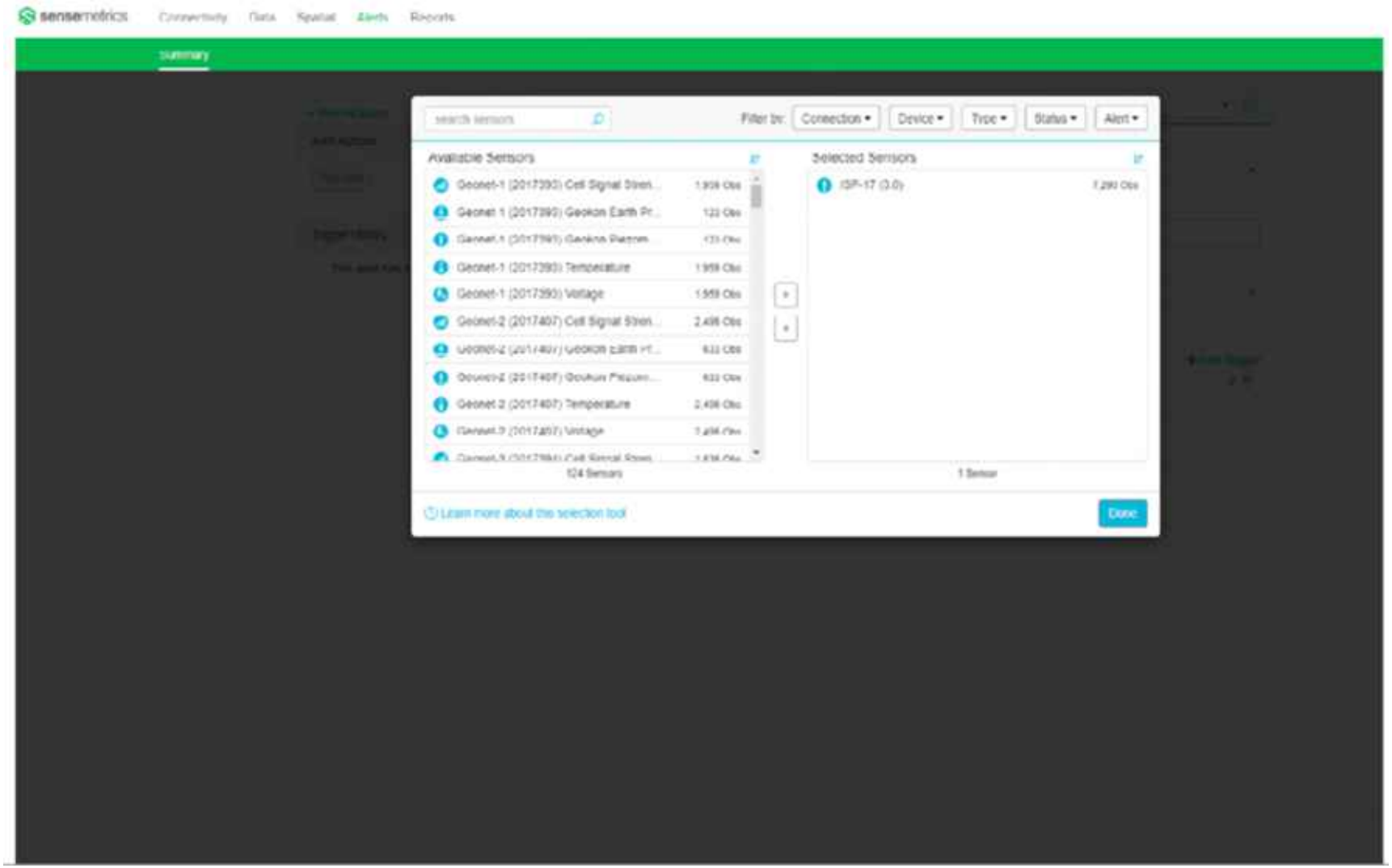
30 May
12:00
31 May
00:00
12:00
1 Jun
00:00
12:00


sensametrics
Connectivity
Data
Spatial
Alerts
Reports
Summary
« View All Alerts
Alert Actions
Test Alert
Trigger History
This alert has never triggered
New Alert
Copy From...
Name:
PZ Test Alert
Priority:
Moderate
Type:
Data
Sensors:
1 Sensor Selected
Trigger Actions
Send email on alert trigger
No actions added. Add Action
Trigger Criteria
Only one rule must be met to trigger
Enable alert verification
Triggers (1):
+ Add Trigger
Trigger when Pressure is above 25.7 in H2O
Save
Cancel

Cancel


sensemetrics
Connectivity
Data
Spatial
Alerts
Reports
Summary
New Alert Trigger
Trigger this alert when
Pressure
is
above
0
(ft H2O)
Current Alert Trigger
Real Time
Pressure (ft H2O)
1.5
1
0.5
Cancel
Add


sensemetrics
Connectivity Data Spatial Alerts Reports
Map
Assets
Image View
Real Time
Legend


sensemetrics
Summary
search sensors
Filter by:
Connection
Device
Type
Status
Alert
Available Sensors
Geonet-1 (2017393) Cell Signal Stren...
Geonet-1 (2017393) Geokon Earth Pr...
Geonet-1 (2017393) Temperature
Geonet-1 (2017393) Voltage
Geonet-2 (2017407) Cell Signal Stren...
Geonet-2 (2017407) Temperature
124 Sensors
Selected Sensors
ISP-17 (3.0)
1 Sensor
Learn more about this selection tool
Done

0 SeriSeMetrics Connectivity Data Spatial AlertsReports

Summary

Select Report

«View All Reports + Add Report

ISP Data ET

No notes prowled.

Report Schedule

This schedule is currently disabled.

Report Recipients

9. Add Recipients

V Generate Now

Sen d to all reci pien ts

Generate Report

The report will be sent only to your email address.

Report Settings

lime Zone: Language:

Central Standard Time (-6:00) • English

All dates and timestamps in the report will be displayed in The report will be displayed in the selected language. the selected time zone.

Cover Page

Report Title:

ISP Data

Author. Fill in your COntaCt information to display on the cover page.

S&ME, Inc.

Project

BA-0171 Caminada

Contact Info:

2798 O'Neal Lane, Bldg. C Baton Rouge, LA 70816

0: 225 478.8476

M: 504.914.5753

Only the first 5 lines will be shovvn.

L o g o.

Upload a logo to display on the cover page. For best resutts, upload an image at least 150px by 150px.

+ Add Section

Graph - Water Level

X

Title:

Water Level

The title will appear at the top of this section.

Notes:

These notes will appear below the title.

Graph Profile: Water Level

| Change Profile

51 Show Legend

Enable to show a legend with sensor names below each graph.

51 Show Alerts

Enable to show relevant alert trigger thresholds on each graph.

0 Show Alert Trigger Tables

Enable to show a table of relevant alert triggers below each graph.

⊟ Show Data Tables

Enable to show a data table below each graph. Note that only the first 250 observations will be displayed.

Round dates to: Non(v

This option will round all observation dates to the selected time interval.

+ Add Section

ISP Data

Report Date:

June 1, 2020 15:11

Central Standard Time

Project:

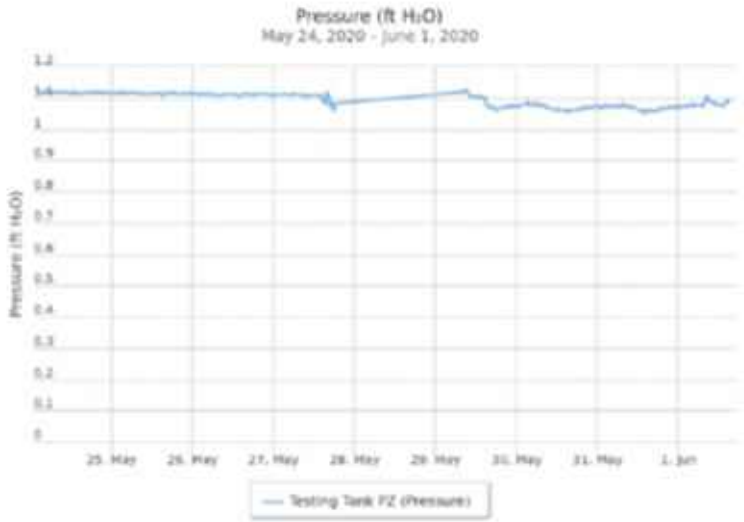
BA 0171 Carnevale

Prepared By:

SAME, Inc.

2798 O'Neal Lane, Bldg. C
Baton Rouge, LA 70816
O: 225.478.8476
M: 504.914.5753

Water Level



Data Table

Time	Testing Tank PZ (Pressure)
2020-5-24 3:00:00	1.118
2020-5-24 3:15:00	1.116
2020-5-24 3:45:00	1.119
2020-5-24 4:00:00	1.118
2020-5-24 4:15:00	1.119
2020-5-24 5:00:00	1.121
2020-5-24 5:15:00	1.116
2020-5-24 5:30:00	1.118
2020-5-24 5:45:00	1.119
2020-5-24 6:30:00	1.116
2020-5-24 6:45:00	1.119
2020-5-24 7:00:00	1.118

Questions?

BUILT FOR VERSATILITY

MEMORANDUM OF MEETING

Date: June 9, 2020
9:00 am Teleconference via Microsoft Teams Meeting

Attendees: Contractor/Subs: Chris Ameika, Mitchell Quakkelaar, Don Norman, Levi Lemoine,

CPRA: Adam Ledet, Shannon Haynes, Brad Miller, Renee Bennett

Federal: Patricia Taylor (EPA)

Sigma/ SM&E: Bryan Harmon, Tim Raborn, Paul Schneider, Greg Mattson, Josh Renard (writer)

Landowners: Amanda Phillips, Julia Lightner,

Pipeline: Robert LeNormand & Kurt Busurelo (LOOP), Steven Fontana (Chevron)

Port: Chett Chiasson, Davie Breaux

Matt Roberson, Stephen Cook, Jim, Darren Faucheux

Re: Caminada Headland Back Barrier Marsh Creation BA-0171
Pre-Construction Conference Meeting Minutes

A Pre-Construction Conference for the Caminada Headland Back Barrier Marsh Creation Project (BA-0171) was held on June 9, 2020. The attached Power Point slide show was discussed along with the below agenda. Original agenda items are in black. Comments and notes are in red.

1. INTRODUCTION

A. Call for introduction of all participates and who they represent.

B. Provide brief overview of Project (location, goals, and description). To save time this was skipped since this was covered in the Pre-Bid and is contained in the PPT being distributed.

2. KEY CONTACT PERSONNEL

A. Federal Agency: EPA Region 6

	Name	Phone	Email
Project Manager	Patricia Taylor	(214) 665-6403 (214) 310-6217(Mobile)	taylor.patricia-a@epa.gov

B. State Agency: Coastal Protection and Restoration Authority

	Name	Phone	Email
Const. Manager Engineer	Adam Ledet	(985) 449-5105 (Office)	Adam.Ledet@la.gov
Project Engineer	Shannon Haynes	(225) 342-9424 (Office)	Shannon.Haynes@la.gov
Project Manager	Renee Bennett	(225) 342-4592 (Office)	Renee.s.Bennett@la.gov
	Brad Miller	(225) 342-4122 (Office)	Brad.Miller@la.gov

C. Project Representative for CPRA: Sigma Consulting Group, Inc.

	Name	Phone	Email
Sr. Project Manager	Bryan Harmon	(225) 298-0800 (Office)	bharmon@sigmacg.com
Construction Manager	Josh Renard	(337) 519-3151 (Cell)	jrenard@sigmacg.com
Construction Inspector	Tim Raborn	(225) 287-4019 (Cell)	traborn@sigmacg.com
Construction Inspector	Paul Schneider	(225) 572-9401 (Cell)	pschneider@sigmacg.com
Construction Inspector	Charles Wayne	(225) 454-0018 (Cell)	cwayne@sigmacg.com
Geotechnical Manager	Greg Mattson	(504) 914-5753 (Cell)	gmattson@smeinc.com

D. Contractor: Great Lakes Dredge & Dock Company, Inc.

	Name	Phone	Email
Project Sponsor	Chris Ameika	(630) 574-3486	CAmeika@gldd.com
Site Manager	Bill Daisey	(630) 632-4205	wdaisey@gldd.com
Project Manager	Manny Vianzon	(904) 254-4051	mvianzon@gldd.com
Quality Control	Mitchell Quakkelaar	(616) 427-4205	maquakkelaar@gldd.com

E. Landowners:

Owner/Agency	Name	Phone
• Edward Wisner Donation Co.	Amanda Philips	(505) 210-1152
• Caillouet Land, LLC	Jay Caillouet	(504) 665-2123
• LA Dept of Wildlife and Fisheries	Julia Lightner	(504) 286-4041

Refer to Appendix D of Contract Documents For Land Rights Permits

3. CONSTRUCTION AGREEMENT

Executed and Recorded	Yes	☒	No	☐
Certificate of Recordation sent to Project Support	Yes	☒	No	☐
Payment and Performance Bonds	Yes	☒	No	☐
Insurance Certificates	Yes	☒	No	☐

Remarks: _____

4. SUBCONTRACTORS

A. Subcontractor List Received	**Yes**	☒	**No**	☐
B. List Approved	**Yes**	☒	**No**	☐

Surveying	**Dike Construction**	**Bird Abatement**
HydroTerra	Wilco Marsh Buggies	Norman Wildlife Consulting
Tim Fontenot	Levi Lemoine	Donald Norman
337.962.3809	225.999.8318	206.719.3849
Tim.fontenot@hydroterratec.com	llemoine@wilcomarshbuggies.com	normanwildlifeconsulting@gmail.com

ISP Fab	**Aerial Photograph**
Myer Marine Services	Gulf Coast Air Photo
David Myer	Patrick Quigley
251.895.0010	985.788.3458
david@myermarineservcies.com	quigleyp@bellsouth.net

5. **NOTICE TO PROCEED** (GP-7)

Start Date:	**April 20, 2020**
Contract Time (Calendar days):	**548 Calendar Days (includes estimated weather days)**
Construction Completion Date	**October 20, 2021**
Amount of Contract:	**$ 30,088,172.00 With CO #01**
Amount of Liquidated Damages:	**$5,470.00 per day**

Other: _____

6. **WORK PLAN / PROGRESS SCHEDULE** *(SP-7, GP-8 through 10, and GP-41)*

Work Plan Provided *(Draft provided.*)* **Yes** ☒ **No** ☐

Work Plan Accepted **Yes** ☐ **No** ☒

Intend to combine all sub's workplans into GLDD's workplan? _____.

- **Progress Schedule:** Comments provided on Initial submittal, Rev1 received 6/8. GLDD discussed their Rev1 schedule which was included on the power point. GLDD wishes to start ECD construction before end of June after required submittals are submitted, reviewed, and approved. Some of the things mentioned by CPRA/SCG that are needed prior to ECD commencement: Approved Increment 1 Survey submittal, Wilco workplan including dike breach repair procedures/communication and environmental protection, Inspection workspace with internet access, Inspection transportation.
- **Daily Reports;** Rev1 has been approved.
- **Hurricane and Severe Storm Plans (GP-11):** Awaiting Rev1.
- **Health and Safety Plan (GP-12);** Will be sending comments to Initial submittal soon. **** Note:*** *Per GP-32 In addition to above the contractor must fully comply with all federal state and local laws and regulations related to environmental protection.*
- **Dredge data sheet(s) (Appendix J):** Not provided.
- **Equipment data sheets (Appendix K):** What has been sent has been approved. May be more w/ Dredging.
- **Layout and schedule of all work (Surveys, equipment routes, pipeline alignments, staging areas, etc.);** Received: Survey layout, Bird abatement plan- expecting Rev1 bird abatement plan in 1 week. Awaiting equipment routes, pipeline alignments, staging areas.
- **Awaiting dike breach repair procedures and communications protocol.** Also, environmental protection as well.

Contractors Anticipated Hours of Operation for Significant Phases of the Work?
Wilco work plan cycle is to work 11- (10-12 hr days) and then take 3 days off. Dredge work will be 24/7.

Does the Contractor expect any Unavoidable Delays in completing the Project? **Yes** ☐ **No** ☒

If yes, explain: _____

Remarks: Eventually, GLDD expects to combine all workplans into one version.

7. **REQUEST FOR INFORMATION (RFI's)** The projects first three closed out RFI's were discussed.
    - GLDD advised that they expect to submit soon RFI #4 requesting clarification on containment dike linear foot from CO #01.
    - Alternate priority dike borrow area was discussed additional details will be provided from GLDD/Wilco.

- Higher initial dike lifts to 3' elevation instead of 2'were discussed. Formal request must be made and Geotech concerns must be reviewed/addressed in the review.
- Question was raised regarding placing pipeline on the beach before the end of the nesting season. Once the bird abatement plan is received and reviewed, a formal RFI can be sent and reviewed by CPRA.
- GLDD asked about using the Elmer's island road to access east end of Project. Formal RFI will be required and CPRA will review the request.

8. INSPECTION (SP-9 and 10)

A. Has Contractor made provisions for providing an office, boat, and transportation between the jobsite and boat launch for Inspector and state and federal personnel? **Yes** ☐ **No** ☒

B. Role of Inspectors (GP-16, GP-29)

C. Remarks: Location and plan for inspector office was discussed and need to have this in place prior to any construction stressed. Wilco and GLDD will have their safety representatives onsite

9. SUBMITTALS, SHOP DRAWINGS, REPORTS, AND RECORDS (SP-3, SP-19, GP-41)

All correspondence shall be sent through the Construction Manager. This includes submittals, questions, updates, instruction, etc.

See SP-3 for contract milestone requirements, prior to, during, and post construction. Submittals shall be provided in accordance with SP-19 and GP-41. *Per GP-41: Each submittal shall contain a signed statement by the contractor that it complies with the contract requirements.*

10. PERMITS/NOTIFICATIONS (GP-26, TS-211 / GP-24, GP-25, SP-13, SP-14)

- Contractor advised that Harvest Pipeline expressed concerns about priority dike borrow excavation near their pipeline. GLDD advised of a potential alternated priority dike borrow area and will include this in an RFI. SM&E will need to analyze the proposed location prior to approval.
- XTO pipeline has been unresponsive to One Call requests. SCG/CPRA to assist in making contact.

11. QUALITY CONTROL (GP-20, GP-31, GP-47, GP-56)

	Name	Phone	Email
Quality Control Person	Michael Quakkelaar	Reference section 2.D above for contact info.	
On-site Superintendent	Bill Daisey		
Authorized to Execute Change Orders	Chris A., likely Manny V. as well.		

12. MONTHLY PAYMENT REQUESTS (GP-58)

A. Pay Request Form

B. In addition to any Ratio of Effort and Withholdings, a Retainage of 5% will be withheld for a minimum of 45 days after Final Acceptance to ensure that all liens are released.

C. Time anticipated for review **A. Proj. Rep.** 7 - 14 **Days**

B. Owner _____ **Days**

E. Remarks: _____

13. PAYROLLS AND LABOR STANDARDS ((GP-4)

Certified Payrolls: **Applicable to Project** ☒ **Not Applicable to Project** ☐

A. Certifications Reviewed **Yes** ☐ **No** ☐

B. Payrolls to be submitted to: Construction Manager
Payrolls Submittal Interval Period: Monthly with Pay Request

Job Interviews Required **Yes** ☒ **No** ☐

C. **Remarks:** GLDD is very familiar with the federal wage rate and certified payroll process and all sub pay request will incorporated into their Monthly request

14. PROGRESS MEETINGS (GP-13, GP-39, SP-3)

Day _____ **Time** _____ **Place** _____ *(TBD)*

A. Typical Form for Progress Meetings was received, awaiting Rev2.

15. AS-BUILT DRAWINGS (GP-54)

The Contractor shall keep an accurate as-built record, in a manner approved by the Engineer, of all changes in the Contract Document during construction. Any markings for changes, revisions, etc. shall be red erasable pencil.

16. REVIEW PLANS AND SPECIFICATIONS

17. ISP DISCUSSION – Shannon and Greg discussed ISPs with the associated power point slides.

Will need information from process surveys for ISP's. Contractor expressed concern with having ISP's and piezometers installed early with equipment working in the area. Per CPRA, ISP's will need to be installed at least one month prior to Dredge commencement. Close coordination and scheduling between all parties shall be required.

18. ADDITIONAL COMMENTS/QUESTIONS/DISCUSSION

- GLDD advised that dike near survey points 48 and 49 lies close to Chevron pipeline. CPRA responded that once process surveys were submitted to submit an RFI if it is too close to the pipeline.
- Wilco plans to construct ECD to rough elevation 6' assuming some settlement will yield 5' elevation during Dredging.
- Davie with the Port Authority advised that we notify Scott with Homeland Security (985-291-2006) prior to any drone or aerial photography.

CC: All Attendees

Attachments: 1.) Power Point Slide