Item H7:

Cell By Cell Inspection Reports



Inspector's Daily Report

TO / CLIN #: <u>4414/1</u>

CONTRACT #: <u>4414-1-S100</u>

PROJECT NAME: 2008 MTR	PROJECT SITE CONDITIONS
CONTRACTOR: OAP	TEMPERATURE: °58
	WEATHER: Mostly Cloudy, Lt. rain.
PROJECT MANAGER: Tom Pitt - 440-0429	SHIFT: Day Night
SUPERINTENDENT: Steve Stichler - 223-7591 Tim Dudley - 250-9429	HOURS: <u>8:00am</u> to <u>5:30pm</u>

DAILY REPORT NOTES:

Work performed

Inspections

Observations by Chris Locke:

- MKB
 - 1) Locate and fixed the reason the vibrocompactor's was non maintaining hydraulic pressure. At approximately 1055hrs vibrocompaction/crane experienced rigging problem. Fixed rigging problem at 1530hrs and continued vibrocompaction operations. Vibrocompaction borings completed: 1-1, 2-1, 2-2, 3-6, 3-5, 3-4, 3-3, 3-2.
 - 2) Continued sheet driving operations near cells 26.
- QAP
 - 1) Continue earthworking activities associated with the 2008 MTR located near the south west boundary of the North backlands.
 - 2) Conducted drive by recon of 2008 NEBP to assess SWPPP issues associated with recent heavy rain fall.
- Denali Drilling/Northern Geotechnical Engineering Drilled NB199.

Discussions

Meetings

1:00 – ICRC Wye Meeting with PND. Discussed possibility of switching radius back to original layout. MKB is hinting that we should change back to the consistent cell radius. Right now interlock to interlock distance is 20" (design); actual disrance is 19 7/8". PND may redesign to 19 ³/4" to allow for constructability. Could we hit the radius with the same number of sheets? PND will send layout. If we want to make change, should we have them change now at cell #27, or should we wait until the start of the North Extension? Would have to move too fast; need to see how driving along wet barge berth goes before we make a decision. PND will hold off till the end of this year and we then re-look at the issue. Will make change so it can be incorporated into the North Extension. PND will create a new layout option now so that we can incorporate sooner if required. - KS

2:00 – Weekly Contractor Meeting

Potential extra costs

<u>Safety</u>

Vapors related to welding galvanized sheet piles.

INSPECTOR:

SIGNATURE & DATE:

CHRIS LOCKE

9/16/2008

2008 MTR



Inspector's Daily Report

DATE: Friday 9-19-2008

TO / CLIN #: <u>4414/1</u>

CONTRACT #: <u>4414-1-S100</u>

PROJECT NAME: 2008 MTR	PROJECT SITE CONDITIONS TEMPERATURE: °58
CONTRACTOR: QAP	WEATHER: Mostly Cloudy, Lt. rain.
PROJECT MANAGER: Tom Pitt - 440-0429	SHIFT: Day Night
SUPERINTENDENT: Steve Stichler - 223-7591 Tim Dudley – 250-9429	HOURS: <u>8:00am</u> to <u>5:30pm</u>

DAILY REPORT NOTES:

Work performed

Inspections

Observations by Chris Locke:

- MKB
 - 1) Vibrocompaction operations. QA inspections completed: 11-6, 10-2, 10-6, 9-4, 8-1,
 - 2) Continued sheet driving operations near cells 28.
 - a) stabbing face sheet piles (in water operations 0730-1240hrs)
- QAP
 - Continue earthworking activities associated with the 2008 MTR located near the south west boundary (progressing northward) of the North backlands. Continued earthwork activities a near the south western boundary (progressing southward) of the North backlands. Both earthworking activities are designed to meet at rendezvous point located within the North backlands. See picture.
- **Denali Drilling/Northern Geotechnical Engineering** Decommission NB158 and NB160 as per contract requirements.

Discussions

Refer to Sandy Morris (PND) email regarding vibrocompaction grid spacing within the cells and vibrocompcation procedures.

Meetings

Potential extra costs

Change in vibrocompaction procedures impact upon cost?

<u>Safety</u>

Vapors related to welding galvanized sheet piles.

INSPECTOR:

SIGNATURE & DATE:

CHRIS LOCKE

9/19/2008

2008 MTR





Inspector's Daily Report

TO / CLIN #: <u>4414/1</u>

CONTRACT #: <u>4414-1-S100</u>

PROJECT NAME: 2008 MTR	PROJECT SITE CONDITIONS
CONTRACTOR: <u>QAP</u>	TEMPERATURE: °58 WEATHER: Mostly Cloudy, Lt. Rain.
PROJECT MANAGER: Tom Pitt - 440-0429	SHIFT: Day Dight
SUPERINTENDENT: Steve Stichler - 223-7591 Tim Dudley – 250-9429	HOURS: <u>8:00am</u> to <u>5:30pm</u>

DAILY REPORT NOTES:

Work performed

Inspections

Observations by Chris Locke:

• **0800hrs** – arrived on site (out of water)

- MKB

- 1) Vibrocompaction operations within the cells
- 2) Servicing sheet pile crane.

- QAP

1) I inspected the area where the damaged haul truck occurred on 9-22-08. No evidence of hydraulic etc spill evident.

2) Continue earthworking activities associated with the 2008 MTR located near the south west boundary (progressing northward) of the North backlands. Continued earthwork activities a near the south western boundary (progressing southward) of the North backlands. Both earthworking activities are designed to meet at rendezvous point located within the North backlands. See picture.

- **Denali Drilling/Northern Geotechnical Engineering:** Mobed on to site. I instructed Northern Geotechnical Engineering geologist to call Sandy Morris (PND) for instructions.

- **0930hrs** (out of water)
 - **ANT:** off-shore acoustic survey.

- MKB: Soil vibrocompaction operations shut down for the remainder of the day to allow Denali Drilling to bore holes within the vibrocompaction area.

- 1000hrs (out of water) MKB begins impact hammer work within cells 27 and 28 (face sheets).
- 1145 in water
 - MKB Contiune impact hammer operations within cells 27 and 28.

- Denali Drilling/Northern Geotechnical Engineering: Commence Drilling operations within cell 11 after TWA survey laid out the pre-existing vibrocompaction locations.

- **QAP:** Contiune earthworking activities as described in 0800hrs entry.
- ANT: Continue off-shore acoustic survey
- **1200-1235hrs** MKB lunch
- **1600hrs** (in water)
 - MKB Impact hammer work of cells 27/28/29
 - Denali Drilling/Northern Geotech: Continue drilling within cell 11
 - **TWA:** Continued site survey work
 - ANT: Continued off-shore acoustic survey
 - **QAP:** Continued earthworking activities as described in 0800hrs entry.

Vibrocompaction borings QA inspected today: 3-11, 3-8.

Discussions

Northern Geotechnical Engineering geologists called Sandy Morris (PND) infer about today's drilling plan. She instructed him to drill within cell 11. Last week PND/ICRC instructed (by email) MKB to implement an 8 foot center vibrocompaction, instead of a 10 foot center, within one of the cells. MKB choose cell 11. PND is testing the effectiveness of the 8 foot grid vs. the 10 foot grid.

Meetings

Potential extra costs

Change in vibrocompaction procedures impact upon cost?

<u>Safety</u>

Keeping unnecessary personal way from the job site.

INSPECTOR:

SIGNATURE & DATE:

CHRIS LOCKE

9/23/2008

2008 MTR



Inspector's Daily Report

DATE:	Wednesday,	9-24-2008
-------	------------	-----------

TO / CLIN #: <u>4414/1</u>

CONTRACT #: <u>4414-1-S100</u>

PROJECT NAME: 2008 MTR	PROJECT SITE CONDITIONS
CONTRACTOR: QAP	TEMPERATURE: °48 WEATHER: Mostly Cloudy, Lt. Rain.
PROJECT MANAGER: Tom Pitt - 440-0429	SHIFT: Day Dight
SUPERINTENDENT: Steve Stichler - 223-7591 Tim Dudley – 250-9429	HOURS: <u>8:00am</u> to <u>5:30pm</u>

DAILY REPORT NOTES:

Work performed

Inspections

Observations by Chris Locke:

• **1040hrs** – arrived on site (in water)

- MKB

- 1) Vibrocompaction probe operations within the cells
- 2) Impact hammer cell on cell 30 tail wall sheet piles
 - QAP

1) Continue earthworking activities associated with the 2008 MTR located near the south west boundary (progressing northward) of the North backlands. Continued earthwork activities a near the south western boundary (progressing southward) of the North backlands. Both earthworking activities are designed to meet at rendezvous point located within the North backlands. See picture.

- Denali Drilling/Northern Geotechnical Engineering: Not on site today
- ANT: Continue off shore acoustic survey work
- **1339hrs** (in water)

– MKB

- 1) Soil vibrocompaction probe operations within the cells.
- 2) Impact hammer of cell 30 face sheet pile
 - **QAP:** Continue earthwork as described at 1040hrs.
 - ANT: Continue off shore acoustic survey work
- **1500hrs** (in water)
 - MKB
 - 1) Soil vibrocompaction probe operations within the cells.
 - 2) Placement of "template" for future sheet pile diving operation near cell 30.
 - QAP: Continue earthwork as described at 1040hrs.
 - ANT: Continue off-shore acoustic survey work
- **1700hrs** (in water)
 - MKB: Continuation of 1500hrs activities.
 - **QAP:** Continue 1040hrs activities.
 - ANT: Continue off-shore acoustic survey work

Vibrocompaction boring QA inspected today: 5-15, 5-12, 5-9, 4-13, 4-10, 4-17, 5-8, 5-11, 5-14

Discussions

Meetings

2:00 pm – Weekly Contractor Meeting. See minutes. **Potential extra costs**

<u>Safety</u>

Keeping unnecessary personal way from the job site.

INSPECTOR:

SIGNATURE & DATE:

CHRIS LOCKE

9/23/2008

2008 MTR



OCSP® Field Inspection Report Page 1 of 4

Project: POA Nor	B Date	: 8-2	3-09		Reviewed	By	DRAFT	[
PND Project No.:	PND Project No.: 061028				ınday		Reviewed	Date		
CONTRACTOR:	MKB Construc	ctors	WEATHER		Cloudy,	Rai	ny SHEET	PILE	23, 26, 3	38-39,
					by depa	rture	CELL #'s		57 - 58	
Project Manager	Andy Romine		WIND	Light W	vind	TAIL WA	LL #'s	V, X		
Superintendant	Steve Stensler		ТЕМР		58					
Foreman	Larry/Paul		TIME ON JOBS	ITE	(5 hrs)	PND				
EQUIPMENT USE	D:									
Manitowoc 4000W C	Crane		Manitowoc 2500	itowoc 2500 Crane Blue X			Volvo L180C Loader/ H		Forklift	X
Manitowoc 4100W Crane black tip X Manitow			Manitowoc 2500	nitowoc 2500 Crane Orange X			APE 200-6 Vibratory Ha		lammer	X
Manitowoc 4100W Crane orange tip X Kobelco			Kobelco CK250	CK2500 Crane Yellow X			BSP SL30 Hamme		er	X
OBSERVED PROGRESS, UNUSUAL CONDITIONS, MEETINGS:							JM 115 I	mpact Ham	mer	X

Items Inspected/Locations/Comments

- Arrival on site 10:15am beluga whale sighting forced stoppage of less than one hour ~11:00AM
- MKB South pad, South End 2500 Blue on arrival moving soldier piles from cell 57 to 58 w/ APE 200-6 vibratory hammer
- MKB South pad, South End ground crew on arrival working on gangways, templates to prepare for cell 58
- QAP South pad, South End Hitachi 450lc on arrival excavating cell 58 to prepare for pile placement
- MKB South pad, North End 4100W Orange Tip on arrival jetting outside of cells 38/39
- MKB North pad, South End 2500 Orange on arrival driving sheets tail wall X w/ APE 200-6 vibratory hammer
- MKB North pad, South End 4100W Black Tip on arrival driving face sheets cel 23 w/ BSP SL30
- MKB Wet Barge Berth 2500 Yellow on arrival idle w/ JM 115 picked, lying on ground
 - o Some driving progress ~1ft or less made later on southerly end wall sheets
- MKB Wet Barge Berth 4000W Vibracompactor idle throughout shift, repair efforts active
- MKB loader pairing and staging sheets
- MKB South pad, South End 2500 Blue at departure w/ man basket/crew working on cell 58 prep soldier piles/braces
- MKB South pad, North End 4100W Orange Tip at departure idle
- MKB North pad, South End 2500 Orange at departure w/ man basket/crew working on cell 23, tail wall V
- MKB North pad, South End 4100W Black Tip idle w/ BSP SL30 atop tail wall sheets V awaiting sheet trimming/welding
- MKB Wet Barge Berth 2500 Yellow at departure idle w/ JM 115 picked, lying on ground, awaiting bent sheet trimming

Summary of Outstanding Deficiencies:

Sheet handling, Installed sheets, anchors and wyes out specified plan location, dike slopes and interlock fit issues at wye welds and splices.

PND is not responsible for Contractors safety programs, QC program, Contractors equipment, methods or procedures of operation.

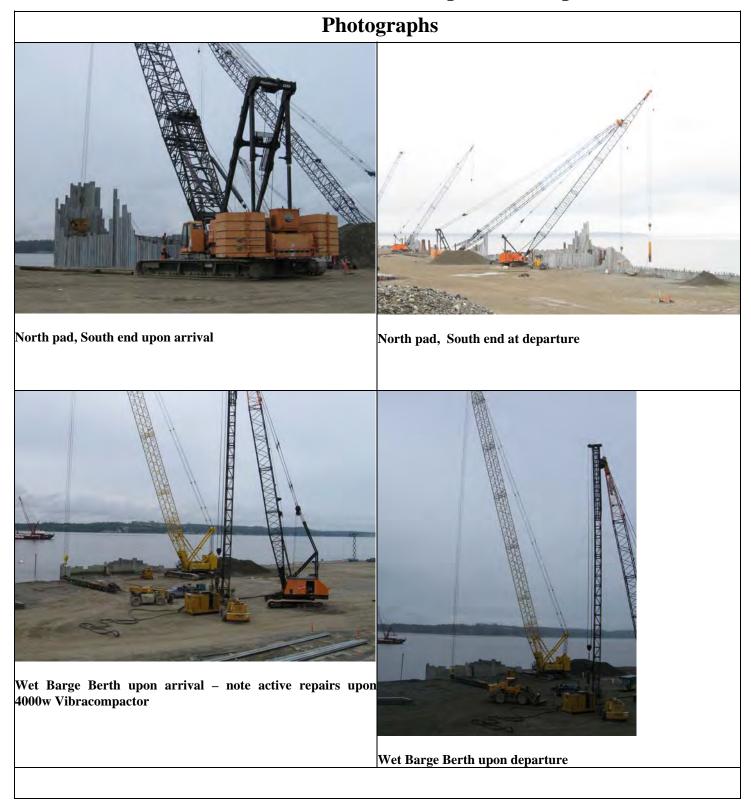


OCSP® Field Inspection Report Page 2 of 4



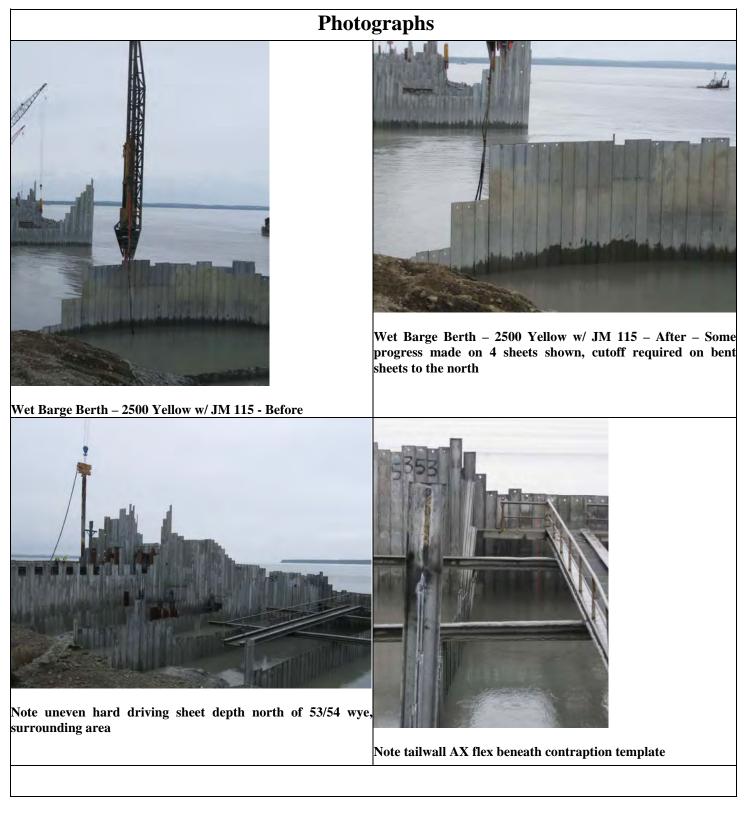


OCSP® Field Inspection Report Page 3 of 4





OCSP® Field Inspection Report Page 4 of 4



BYBen PiccioniTITLEPND Inspector

All work monitored was performed in accordance with the plans and specifications to the best of my knowledge, unless noted otherwise in this report.



OCSP® Field Inspection Report Page 1 of 4

Project: POA North Extension- OCSP®					8-30	-09		Reviewed By	DRAFT	Г
PND Project No.:	061028			Day	Sun	nday		Reviewed Date		
CONTRACTOR:	MKB Construc	ctors	WEAT	HER		Sunny,		SHEET PILE	28, 55, 5	56, 59
						Partly C	loudy	CELL #'s	WBB	
Project Manager	Andy Romine		WIND	WIND			vind	TAIL WALL #'s	WBB	
Superintendant	Steve Stinsler		ТЕМР			56* F				
Foreman	Larry/Paul		TIME O	N JOBSI	TE	(4.75hr	s) PNI)		
EQUIPMENT USE	D:									-
Manitowoc 4000W C	Crane		Manitow	Manitowoc 2500 Crane H			X	Volvo L180C Loader/ I	Forklift	X
Manitowoc 4100W G	Crane black tip	X	Manitow	Ianitowoc 2500 Crane Orange X			APE 200-6 Vibratory H	Iammer	X	
Manitowoc 4100W Crane orange tip Kobel		Kobelco	belco CK2500 Crane Yellow X			X	BSP SL30 Hamm	er	X	
OBSERVED PRO	OBSERVED PROGRESS, UNUSUAL CONDITIONS, MEETINGS: JM 115 Impact Hammer X							X		
Items In an ested/I	Itama Inspected // eastions/Comments									

Items Inspected/Locations/Comments

- Arrival on site 10:30AM whale sighting just earlier, brief work stoppage
- MKB South pad, South End 2500 Yellow on arrival idle, later stabbed sheets face cell 59 but removed them
- MKB South pad, South End 4100W Black tip idle on arrival idle w/ BSP SL30 impact hammer picked, on ground
 - o MKB crewmen (2) welding/working on hammer resumed driving ~12:30PM
- MKB South pad, North End 4100W Orange Tip on arrival idle (broken axle), repairs active, idle throughout shift
- QAP South pad, North End Hitachi 700 excavator on arrival idle
- MKB South pad, North End 2500 Blue idle on arrival, later picked Ape 200-6 and moved powerpack to cell 38 area
- MKB North pad, South End 2500 Orange on arrival driving soldier piles in cell 28
 - o Later moved braces and gangways to prepare cell 28 for sheet installation
- MKB North pad, North End 4000W Vibracompactor on arrival idle, repairs active, appeared idle throughout shift
- MKB Wet Barge Berth White Sandstrom 'Lima' crane on arrival idle w/ JM 115 picked
- MKB loader pairing and staging sheets
- QAP compactor compressing new fill stockpile on north end, QAP loader later bermed the edge of the pile
- MKB South pad, South End 2500 Yellow at departure idle, sheets removed after attempted installation still on ground
- MKB crewman heating sheets/sticks, applying galvanizing material to sheet splices
- MKB South pad, South End 4100W Black Tip at departure driving sheets face cell 56 w/ BSP SL30 impact hammer
- MKB South pad, North End 2500 Blue at departure driving h-pile probe outside face of cell 38
- MKB North pad, South End 2500 Orange at departure picking template to install in cell 28
- MKB Wet Barge Berth White Sandstrom 'Lima' driving sheets w/ JM 115 impact hammer

Summary of Outstanding Deficiencies:

Sheet handling, Installed sheets, anchors and wyes out specified plan location, dike slopes and interlock fit issues at wye welds and splices.

PND is not responsible for Contractors safety programs, QC program, Contractors equipment, methods or procedures of operation.



OCSP® Field Inspection Report Page 2 of 4



South pad, South end upon arrival – 2500 Yellow idle, 4100wSouth pad, South end at departure – 4100w Black tip driving Black tip idle w/ repairs to BSP SL30 face sheets cell 56



South pad, North end upon arrival – 2500 Blue picks Ape 200-South pad, North end at departure – 2500 Blue drives h-pile 6 in preparation for h-pile probing of problematic cells 38-39

probe outside face of cell 38 in attempt to loosen material and allow the sheets to move



OCSP® Field Inspection Report Page 3 of 4

Photographs



North Pad, South end upon arrival – 2500 Orange drivingNorth Pad, South end at departure – Orange 2500 picking soldier pile cell 28 template to install at cell 28 face

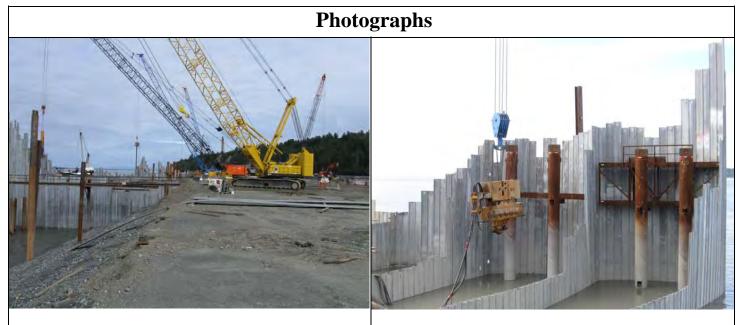


North Pad, North end & Wet Barge Berth upon arrival –Wet Barge Berth at departure – White Sandstrom 'Lima' 4000w Vibracompactor and White Sandstrom 'Lima' idle

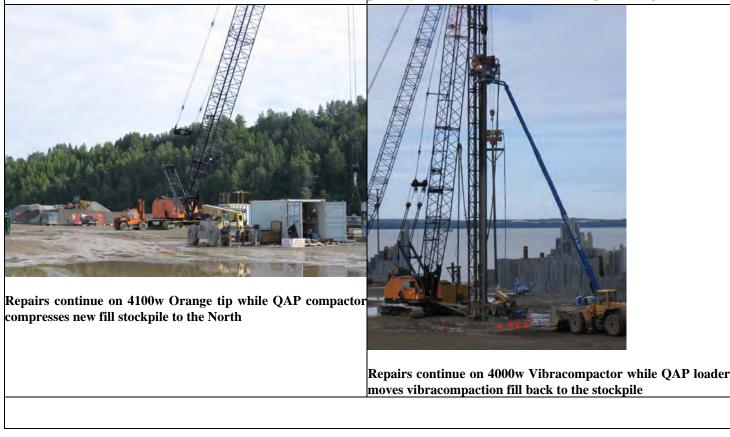
driving sheets w/ JM 115 impact hammer



OCSP® Field Inspection Report Page 4 of 4



Sheet set down by 2500 Yellow after fitment & interlockApe 200-6 lifted out of flooded cell 38 where the hammer was interference issues prevent sheet installation partially immersed to allow for more rapid cooling



BY

Ben Piccioni TITLE PND Inspector

All work monitored was performed in accordance with the plans and specifications to the best of my knowledge, unless noted otherwise in this report.



OCSP® Field Inspection Report Page 1 of 5

Project: POA North Extension- OCSP®				Date:	9-02-	-09		Reviewed By	DRAF	Γ
PND Project No.:	061028			Day	We	dnesday		Reviewed Date		
CONTRACTOR:	MKB Construc	ctors	WEAT	HER		Cloudy,	Rainy	SHEET PILE	21, 28, 4	-0,
								CELL #'s	56, 57, 5	9
Project Manager	Andy Romine		WIND			Light W	'ind	TAIL WALL #'s	AA, BB,	, BE
Superintendant	Steve Stinsler		TEMP			50* F				
Foreman	Larry/Paul	-	TIME O	N JOBSI	ТЕ	(5.75hr	s) PNI)		
EQUIPMENT USE	D:									
Manitowoc 4000W C	Crane		Manitow	owoc 2500 Crane Blue X		Volvo L180C Loader/	Forklift	X		
Manitowoc 4100W Crane black tip X Manitow		Manitow	towoc 2500 Crane Orange X		APE 200-6 Vibratory F	Iammer	X			
Manitowoc 4100W Crane orange tip X Kobelco		Kobelco	CK2500 Crane Yellow X			X	BSP SL30 Hamm	er	X	
OBSERVED PROGRESS, UNUSUAL CONDITIONS, MEETINGS:								JM 115 Impact Han	nmer	

Items Inspected/Locations/Comments

- Arrival on site 8:00AM
- MKB South pad, South End 2500 Blue on arrival idle, later picked Ape 200-6 and set sheets tail wall BE
 - Later set add'l sheets in tail wall BE (cell 59)
- MKB South pad, South End 4100W Orange tip on arrival driving sheets faces of cells 56 and 57 w/ BSP SL 30 impact
- MKB South pad, North End 2500 Yellow man basket/1 crew on face of cell 40 trimming, welding plates to sheets
 Later picked Ape 200-6, pulled a single sheet tip w/ plate off, pulled jaws loose on a double sheet/stiffener pick
 - QAP North pad, South End Hitachi EX700 exc. tail wall AA, placing fill in dump truck, delivering to nearby fill stockpile
- MKB North pad, South End 2500 Orange on arrival driving sheets/Intermediate anchor tail wall AA w/ Ape 200-6
- WKD North pad, South End 2500 Orange on arrival driving sheets/intermediate anchor tan wan AA w/ Ape 200-0
- MKB North pad, North End 4100w Black tip on arrival idle, 2 crew working on nearby BSP SL30 impact hammer
- MKB North pad, North End 4000W Vibracompactor on arrival idle, appeared idle throughout shift
- MKB Wet Barge Berth (WBB) 1500 White Lima on arrival idle, later carried man basket/crew to trim sheets
- QAP North of WBB Hitachi 450, loader, 2 dumps present hole dug to drain inlet, compacting hole w/ hand compactor, testing density of hole later filled back in w/ concrete pipe cap, metal drain grate
- MKB loader pairing and staging sheets
- MKB South pad, South End 2500 Blue at departure driving sheets tail wall BE w/ Ape 200-6, Hitachi 450 exc. BE
- MKB South pad, South End 4100W Orange tip at departure driving sheets tail wall BB w/ BSP SL30 impact hammer
- MKB South pad, North End 2500 Yellow at departure idle w/ Ape 200-6 picked, on ground
- MKB North pad, South End 2500 Orange at departure set h-pile/brace cell 28 w/ Ape 200-6, then put gangway on brace
- DD North pad, North End Denali Drilling AF80 Auger drilling holes marked earlier by TWA surveyor
- MKB North pad, North End 4100 Black tip at departure w/ man basket/2 crew installing brace on cell 21

Summary of Outstanding Deficiencies:

Sheet handling, Installed sheets, anchors and wyes out specified plan location, dike slopes and interlock fit issues at wye welds and splices.

PND is not responsible for Contractors safety programs, QC program, Contractors equipment, methods or procedures of operation.



OCSP® Field Inspection Report Page 2 of 5



South pad, South end upon arrival – 2500 Blue idle, 4100w South pad, South end at departure – 2500 Blue drives sheets Orange tip w/ BSP SL30 impact hammer driving face sheets tail wall BE w/ Ape 200-6, 4100w Orange tip drives sheets tail cells 56-57 wall BB w/ BSP SL30, Hitachi 450 excavates south of BE



South pad, North End upon arrival – 2500 Yellow carries manSouth pad, North End at departure – 2500 Yellow idle w/ Ape basket/1 crew to cell 40 where crewman trims sheets, welds200-6 on ground, crew 'cussing and discussing' failure to move plates to sheets in attempt to stiffen – TWA surveyors right sheets cell 40 despite add'l material welded to plates



OCSP® Field Inspection Report Page 3 of 5



North pad, South End upon arrival – 2500 Orange finished North pad, South end at departure – Orange 2500 picks driving sheets tail wall AA, Hitachi 700 trenches for extended gangway, lifts onto support brace, 4100w Black tip carries man tail wall basket to cell 21 for tail wall brace installation



North pad, North End upon arrival – 4100w Black tip idle,North pad, North End at departure – 4000w Vibe idle, Denali crew work on BSP SL30 impact hammer, 4000w Vibracomp.Drilling AF80 Auger boring holes in pad Idle, Denali Drill rig idle



OCSP® Field Inspection Report Page 4 of 5





BY

OCSP® Field Inspection Report Page 5 of 5



2 buckets+ fill removed from vibracompaction fill stockpile Grader fills holes and puddles and makes the approach more and placed on ground by QAP loader even



Tractor trailers w/ side dumps arrive w/ shot rock, formNew shot rock stockpile north of vibracompaction fill pile stockpile

Ben Piccioni TITLE PND Inspector

All work monitored was performed in accordance with the plans and specifications to the best of my knowledge, unless noted otherwise in this report.



OCSP® Field Inspection Report Page 1 of 4

Project: POA North Extension- OCSP®					9-03-	09		Reviewed By	DRAFI	
PND Project No.:	061028			Day	Thu	rsday		Reviewed Date		
CONTRACTOR:	MKB Construc	tors	WEAT	HER		AM Fo	g, Part	ly SHEET PILE	24, 38-40), 58,
						Cloudy,	Sunny	CELL #'s	59	
Project Manager	Andy Romine		WIND			Light W	'ind	TAIL WALL #'s	W, AB, AY,	
									BD, BE	
Superintendant	Steve Stinsler	ТЕМР		ТЕМР		45* F				
Foreman	Larry/Paul		TIME O	E ON JOBSITE (5.5hrs) PND) PND				
EQUIPMENT USE	D:									
Manitowoc 4000W C	rane	X	Manitow	Manitowoc 2500 Crane		00 Crane Blue		Volvo L180C Loader/ l	Forklift	X
Manitowoc 4100W Crane black tip X Manitow		Manitow	unitowoc 2500 Crane Orange X		APE 200-6 Vibratory H	lammer	X			
Manitowoc 4100W Crane orange tip X Kobelco		Kobelco	CK2500 Crane Yellow X			X	BSP SL30 Hamm	er	X	
OBSERVED PROGRESS, UNUSUAL CONDITIONS, MEETINGS:								JM 115 Impact Ham	mer	X

Items Inspected/Locations/Comments

- Arrival on site 8:15AM fog reduced visibility throughout the morning, at times stopping impact and vibratory hammering
- MKB South pad, South End 2500 Blue on arrival idle, later picked Ape 200-6 and drove sheets tail wall BE
 Later drove face sheets in cells 58 and 59
- MKB South pad, South End 4100W Orange tip on arrival idle, repairs to BSP SL30 hammer underway
- MKB South pad, North End 2500 Yellow on arrival man basket/crew on face of cells 39/40 welding material to sheets
- QAP North pad, SE Hitachi 450, loader w/ fill present hole dug to drain inlet, compacting hole w/ hand compactor, testing density of hole later filled back in w/ concrete pipe cap, metal drain grate, added corps log, smoothed grade
 - MKB North pad, South End 2500 Orange on arrival driving sheets/Intermediate anchor tail wall AB w/ Ape 200-6
- MKB North pad, South End 4100w Black tip on arrival idle, repairs to JM 115 hammer underway
 - Later picked JM 115 impact hammer and drove sheets tail wall W
- MKB North pad, North End 4000W Vibracompactor on arrival active, QAP loader feeding gravel fill
- DD North pad, North End AF80 auger drilling holes on locations marked by TWA surveyors
- MKB Wet Barge Berth (WBB) 1500 White Lima on arrival moving JM 115 power pack, later moved off WBB, idle
- MKB loader pairing and staging sheets
- MKB South pad, South End 2500 Blue at departure driving sheets tail wall BD w/ Ape 200-6
- MKB South pad, South End 4100W Orange tip at departure driving sheets tail wall AY w/ BSP SL30 impact hammer
- MKB South pad, North End 2500 Yellow at departure lifting man basket/welder outside of face sheets 38-40
- MKB North pad, South End 2500 Orange at departure driving sheets tail wall AB w/ Ape 200-4 & Pogo
- DD North pad, North End Denali Drilling AF80 Auger drilling holes marked earlier by TWA surveyor
- MKB North pad, North End 4100 Black tip at departure w/ man basket/Terracon inside face of cell 24
- MKB North pad, North End 4000w Vibracompactor idle, repairs underway, 1500 Lima w/ man basket above 4000w boom, man lift/loader w/ forks adjacent/idle

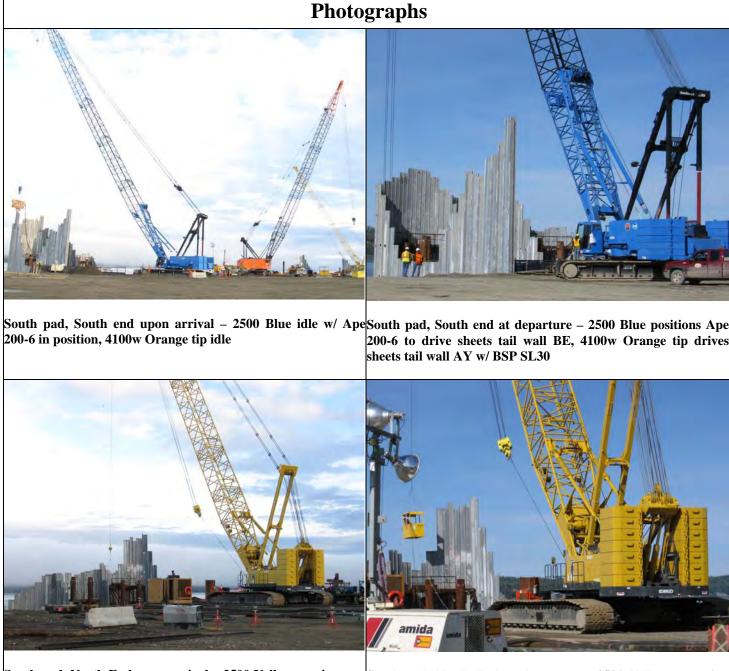
Summary of Outstanding Deficiencies:

Sheet handling, Installed sheets, anchors and wyes out specified plan location, dike slopes and interlock fit issues at wye welds and splices.



OCSP® Field Inspection Report Page 2 of 4

PND is not responsible for Contractors safety programs, QC program, Contractors equipment, methods or procedures of operation.



South pad, North End upon arrival – 2500 Yellow carries man South pad, North End at departure – 2500 Yellow returning basket/1 crew to cells 39/40 where crewman trims/weld sheets welder to the outside of cells 38-40 in man basket



OCSP® Field Inspection Report Page 3 of 4

Photographs



sheets tail wall AB, 4100w Black tip idle in background

North pad, South End upon arrival – 2500 Orange drivingNorth pad, South end at departure – Orange 2500 drives sheets tail wall AB w/ Ape 200-4 & Pogo, 4100w Black tip carries man basket to cell 24 for Terracon to repair/connect sensor wiring



North pad, North End upon arrival – 4100w Black tip idle, crew work on JM 115 impact hammer, 4000w Vibracompactor active, Denali AF80 auger active



North pad, North End at departure – 4000w Vibe idle, repairs underway w/ 1500w Lima crane, Manlift



OCSP® Field Inspection Report Page 4 of 4



Wet Barge Berth upon arrival – 1500 White Lima moving JM Loader moves sheet w/ just forks, resulting in extreme flex of sheet



South Pad Drainage inlet – excavated, prior to compaction, density testing and cap/grate installation and drainage grate, corps log installed, QAP Hitachi 450 finishing up grade – actively draining water in ditch

BY Ben Piccioni TITLE PND Inspector

All work monitored was performed in accordance with the plans and specifications to the best of my knowledge, unless noted otherwise in this report.



OCSP® Field Inspection Report Page 1 of 4

Project: POA North Extension- OCSP®					9-18	-09		Reviewed By		DRAFT	[
PND Project No.:	061028			Day	Frie	day		Reviewed Date			
CONTRACTOR:	MKB Construc	ctors	WEAT	HER		Sunny,		SHEET P	ILE	15-22, 3	1, 58,
						Partly Cloudy		CELL #'s		59, 61, V	VBB
Project Manager	Andy Romine		WIND			Light Wind		TAIL WALL #'	s	AE, BD,	BG
Superintendant	Steve Stinsler		TEMP	ТЕМР		43-60* F				WBB	
Foreman	Larry/Paul	-	TIME O	N JOBSI	ТЕ	(6hrs) I	PND				
EQUIPMENT USE	D:										
Manitowoc 4000W	Crane	X	Manitow	towoc 2500 Crane Blue X		Volvo L180C Loader/]		Forklift	X		
Manitowoc 4100W Crane black tip X Manitow			owoc 2500 Crane Orange X			APE 200-6 Vibratory H		ammer	X		
Manitowoc 4100W Crane orange tip X Kobelco		Kobelco	CK2500 Crane Yellow X			BSP SL30 Hamme		er	X		
OBSERVED PROGRESS, UNUSUAL CONDITIONS, MEETINGS: JM 115 Impact Hamm								mer			

Items Inspected/Locations/Comments

- Arrival on site 8:15AM
- MKB South pad, South End 2500 Blue on arrival idle, gangway for intermediate tail wall BG (61 South) picked, on ground
 - Later set gangway in place and stabbed sheets beyond intermediate anchor
- MKB South pad, South End 4100W Orange Tip on arrival idle, later picked BSP SL30, tested, set back down for repairs
- MKB South pad, North End 2500 Orange on arrival w/ Man Lift outside face cell 39, crew adding doubler plates
 - o Later picked up Ape 200-6, pulled on strengthened sheet, and ripped it off at the double plate weld seam
- MKB North pad, South End 2500 Yellow on arrival driving sheets tail wall AE (31 South) w/ Ape 200-6 vibratory hammer
- MKB North pad, South End 1500SC Lima on arrival idle, BSP SL30 picked, held just above ground for repairs
- MKB North pad, North End 4000W Vibracompactor on arrival working around cell 15
- QAP North pad, North End Volvo loader feeding vibracompaction fill atop 4000W probe assembly, + QAP water truck
- MKB North pad, North End 4100W Black tip on arrival idle, boom on ground, service/repairs underway
- QAP North pad, North End Komatsu 61px filling cells ~15-22, later joined by EX450, D10n, Volvo loader + Dumptrucks
- NSES Wet Barge Berth New Auger on arrival idle, later entered south WBB cell after tide receeded, drilled inside face
- MKB South pad, South End 2500 Blue at departure stabbing intermediate tail wall BG sheets
- MKB South pad, South End 4100W Orange Tip driving sheets tail wall BD (cell 58/59) w/ BSP SL30 impact hammer
- MKB South pad, North End 2500 Orange at departure moving Ape 200-6 back towards cell 39
- MKB North pad, South End 2500 Yellow at departure driving sheets tail wall AE w/ Ape 200-6 vibratory hammer
- MKB North pad, South End 1500SC Lima at departure carrying man basket outside cell 22 w/ 2 crewmen
- MKB North pad, North End 4000w Vibracompactor working east of cell 14 w/ QAP loader and water truck attending
- NSES Wet Barge Berth New Auger drilling inside of south cell, southerly end

Summary of Outstanding Deficiencies:

Sheet handling, Installed sheets, anchors and wyes out specified plan location, dike slopes, driving with hammers out of plumb, interlock fit issues at wye welds and splices, and cells without bracing.



OCSP® Field Inspection Report Page 2 of 4

PND is not responsible for Contractors safety programs, QC program, Contractors equipment, methods or procedures of operation.



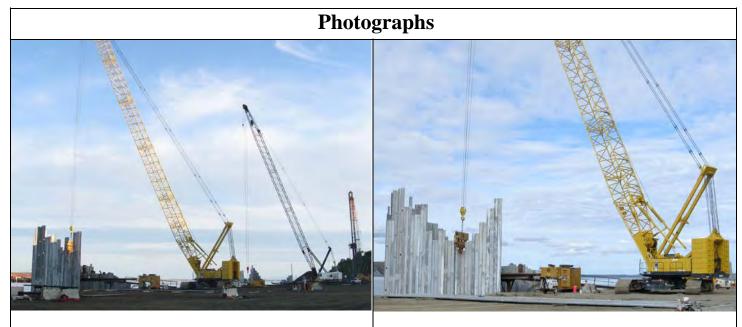
South pad, South end upon arrival – 2500 Blue w/ gangwaySouth pad, South end at departure – 2500 Blue stabs picked to install in intermediate tail wall BG; 4100w Orange intermediate tail wall BG sheets while 4100w Orange tip drives tip idle in background sheets tail wall BD (cell 58/59)



South pad, North end upon arrival – 2500 Orange holding manSouth pad, North end at departure – 2500 Orange returns Ape lift outside face of cell 39 for crew to weld doubler plates to 200-6 towards cell 39 after setting down torn off sheet top outside of sheets



OCSP® Field Inspection Report Page 3 of 4



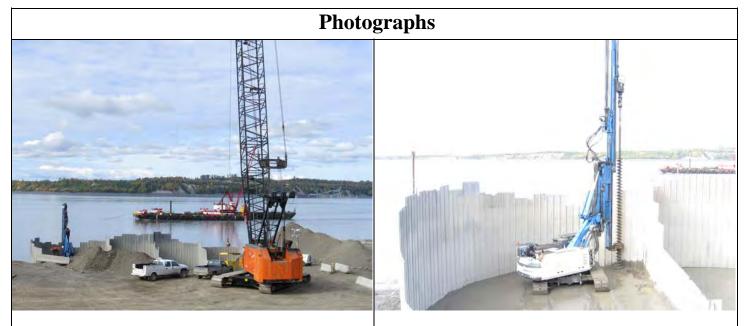
North Pad, South end upon arrival – 2500 Yellow driving sheets tail wall AE (cell 31) while 1500SC Lima sits idle w/ BSP SL30 picked, held for repairs in background outside face cell 22 w/ crewman



North Pad, North end upon arrival – 4000w Vibracompactor North Pad, North end at departure – 4000w Vibracompactor working East of cell 15 w/ Volvo Loader and QAP water truck assisting; 4100W Black tip idle in background, boom on ground; Komatsu 61PX fills cells ~15-22



OCSP® Field Inspection Report Page 4 of 4



Wet Barge Berth at departure – 4100W Orange tip sits idle w/Crew indicates they cannot drill directly adjacent to inside face Man Lift picked, on ground; NSES tracked auger in south as sheets tend to toe inward, requiring drill to be placed WBB cell, drilling inside face of south end of cell further from edge of cell, and at an angle away from toe-in



Hitachi 450 installs CMP around sensor conduit while Orange 2500 removes torn off top of doubled sheet cell 39 Komatsu 61PX continues to fill cells

BY

Ben Piccioni

TITLE

PND Inspector

All work monitored was performed in accordance with the plans and specifications to the best of my knowledge, unless noted otherwise in this report.



OCSP® Field Inspection Report Page 1 of 4

Project: POA North Extension- OCSP®				Date: 10-09-09				Reviewed By		DRAFT	
PND Project No.: 061028				Day	Fri	day	ay Reviewed Date				
CONTRACTOR:	MKB Constructors		WEATHER		Rainy		SHEET	PILE	10, 21-27, 29,		
							CELL #'s		30, 49		
Project Manager	Andy Romine		WIND			Light Wind		TAIL WALL #'s		I, J, AD, AJ,	
										BE, BJ	
Superintendant	Steve Stinsler		ТЕМР		47*F to 51*F						
Foreman	Larry, Ward		TIME ON JOBSITE		(6hrs) PND						
EQUIPMENT USED:							Sandstrom 1500SC White 'Lima'			X	
Manitowoc 4000W Crane		X	Manitowoc 2500 Crane Blue			X	Volvo L180C Loader/ Forklift			X	
Manitowoc 4100W Crane black tip X		X	Manitowoc 2500 Crane C			Orange	X	APE 200-6 Vi	nmer	X	
Manitowoc 4100W Crane orange tip X		X	Kobelco CK2500 Crane		e Yellow	X	BSP SL30 Hammer			X	
OBSERVED PROGRESS, UNUSUAL CONDITIONS, MEETINGS: JM 115 Impact Hammer											

Items Inspected/Locations/Comments

- Arrival on site 9:00am
- MKB South pad, South End 2500 Blue on arrival setting sheets tail wall BJ (64S) w/ Ape 200-6 vibratory hammer
 - MKB South pad, South End 4100W Orange Tip on arrival w/ man basket tail wall BE (59/60), trimming sheet tips
 - o Difficult driving w/ BSP SL 30, operation stopped to check hammer, later idle for hammer repair
- MKB South pad, South End 1500SC Lima on arrival slinging cell face sheet brace east of cell 49
- MKB South pad, North End 2500 Yellow on arrival pulling sheet up in tail wall AJ (39N) w/ Ape 200-6
 - o Difficulty w/ plumb/level of wye AJ crew repeatedly applied tension and vibration to adjust
- MKB North pad, South End 4100W Black Tip on arrival driving face sheets cells 30, 31, tail wall AD (30/31)
- QAP North pad, South End D10n, P61x bulldozers moving fill hauled by dumps cells 21-27
- MKB North pad, North End 4000W Vibracompactor on arrival working east of filled cells ~16 w/ Ape 200-6
- MKB North pad, North End 2500 Orange pulling sheets tail wall I (10N)
- North pad, North End TWA surveying throughout site, using control primarily on north end
- Wet Barge Berth Dutra dredging outside south end of WBB cells, less than full buckets of granular fill & clay observed
- MKB South pad, South End 2500 Blue at departure driving sheets tail wall BJ (64S) w/ Ape 200-6 vibratory hammer
- MKB South pad, South End 4100W Orange Tip at departure idle w/ BSP SL30 atop tail wall BE, bent sheet in jaws
- MKB South pad, South End 1500SC Lima idle in central pad area, stretching cables w/ QAP Loader
- MKB South pad, North End 2500 Yellow at departure setting sheets face 39S w/ Ape 200-6, hard driving observed
- MKB North pad, South End 4100w Black tip at departure idle, BSP SL30 impact hammer idle on ground
- QAP North pad, South End Komatsu P61 bulldozer, Hitachi EX450 filling, cleaning silt from cells 21-23 near cell faces
- MKB North pad, North End 4000w Vibracompaction crane at departure paused for a temp check on Ape 200-6
- MKB North pad, North End 2500 Orange pulling sheet tail wall J (10S) w/ Ape 200-6 vibratory hammer

Summary of Outstanding Deficiencies:

Sheet handling, Installed sheets, anchors and wyes out specified plan location, dike slopes, interlock fit issues at wye welds and splices, and cells without bracing.



OCSP® Field Inspection Report Page 2 of 4

PND is not responsible for Contractors safety programs, QC program, Contractors equipment, methods or procedures of operation.



South pad, North end upon arrival – 2500 Yellow pulls face South pad, North end at departure – 2500 Yellow setting face sheet tail wall AJ (39N) up; crew indicates it wasn't plumb and sheets cell 39S w/ Ape 200-6; note skew of hammer/bend of speculated it followed 'the old holes' from the previously sheets and long, uneven sheet drives; hard driving observed installed sheets, since removed



OCSP® Field Inspection Report Page 3 of 4



North Pad, South end upon arrival – 4100w Orange TipNorth Pad, South end at departure – 4100w Orange Tip idle, driving face sheet cell 30 w/ BSP SL30 BSP SL30 impact hammer idle on ground

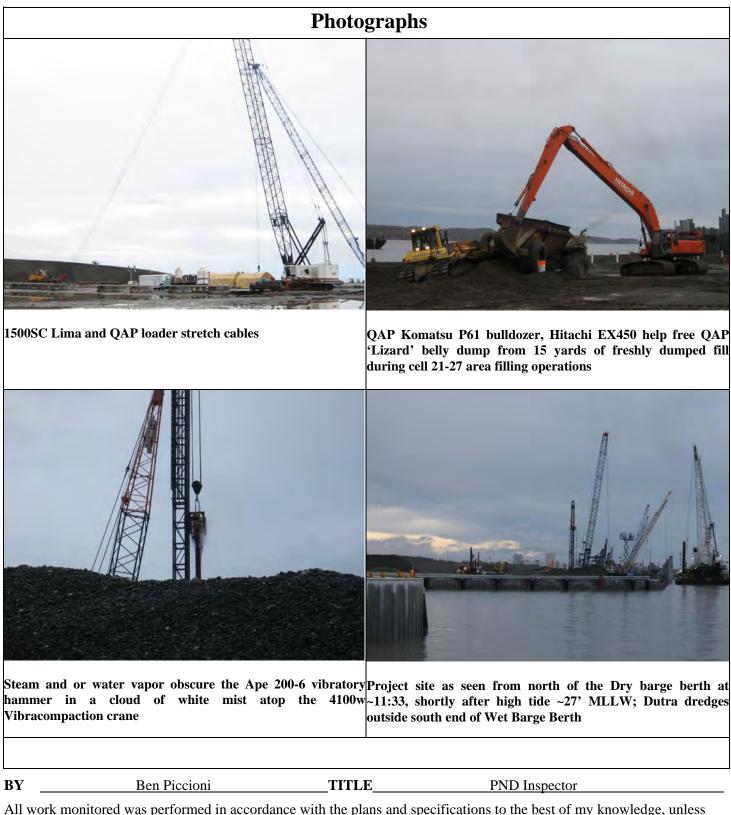


North Pad, North end upon arrival – 2500 Orange pullingNorth Pad, North end at departure – 4000w Vibracompactor sheet tail wall I (10N) w/ Ape 200-6 vibratory hammer

stopped for a temperature check of its Ape 200-6 vibratory hammer while 2500 Orange pauses w/ raised sheet from tail wall J (10S) to allow crew to affix safety cable to hammer prior to releasing sheet from hammer jaws, laying on sheet on pad



OCSP® Field Inspection Report Page 4 of 4



All work monitored was performed in accordance with the plans and specifications to the best of my knowle noted otherwise in this report.



OCSP® Field Inspection Report Page 1 of 4

Project: POA North Extension- OCSP®				Date: 10-13-09				Reviewed By		DRAFT	
PND Project No.: 061028				Day	Tue	sday		Reviewed D	Reviewed Date		
CONTRACTOR:	MKB Constructors		WEATHER		Overcast		SHEET	PILE	11,12,32,39,		
							CELL #'s	CELL #'s		55,59,63,65	
Project Manager	Andy Romine		WIND		Light breeze		TAIL WALI	TAIL WALL #'s		AE,AX	
QAP	Steve Stichler,		ТЕМР		45						
Superintendant	Richard Welker										
Foreman	Steve Moe		TIME ON JOBSITE		(6 hrs) PND						
EQUIPMENT USED:											
Manitowoc 4000W Crane		X	Manitowoc 2500 Crane I			Blue	X	Volvo L180C	Forklift	X	
Manitowoc 4100W Crane black tip		X	Manitowoc 2500 Crane		Orange	X	APE 200-6 Vibratory H		ammer	X	
Manitowoc 4100W Crane orange tip		X	Kobelco CK2500 Crane		Yellow	X	BSP SL30 Hamme		er	X	
OBSERVED PROGRESS, UNUSUAL CONDITIONS, MEETINGS: JM 115 Impact Har							pact Ham	mer			

Items Inspected/Locations/Comments

- Arrival on site 9:00 am
- MKB South pad, South end 2500 blue on arrival pulling and resetting soldier piles for cell 65.
- Sandstrom South pad, South end 1500 white on arrival hoisting man basket in cell 55 for instrumentation activities.
- MKB South pad, South end 4100W orange tip on arrival hoisting man basket at tail wall AX for fresh head activities.
- MKB South pad, North end 2500 yellow on arrival driving cell 39 face sheets with 200-6 vibe hammer.
- MKB North pad North end 2500 orange on arrival pulling cell 11 and 12 sheets.
- MKB North pad 4100W black tip on arrival driving tail wall AE sheets with BSP-SL30 impact hammer.
- MKB loader pairing and staging sheets.
- TWA on site shooting wyes, sheets, and settlement monitors
- MKB South pad, South end 2500 blue at departure pulling template from cell 63 for installation in cell 65.
- MKB South pad, South end 4100W orange tip at departure impact driving cell 59 face sheets with BSP-SL30 hammer.
- Sandstrom South pad, South end at departure hoisting man basket in cell 55 for instrumentation activities.
- MKB South pad North end 2500 yellow driving and plumbing cell 39 face sheets with 200-6 vibe hammer.
- MKB North pad 2500 orange at departure pulling cell 11 & 12 sheets.
- MKB North pad 4100W black tip at departure driving cell 32 sheets with BSP-SL30 impact hammer
- MKB North pad 4000w vibracompaction operated off and on between repairs till noon then was moved to back of WBB area.

Summary of Outstanding Deficiencies:

Sheet handling, Installed sheets, anchors and wyes out specified plan location, dike slopes, driving with hammers out of plumb, interlock fit issues at wye welds and splices.

PND is not responsible for Contractors safety programs, QC program, Contractors equipment, methods or procedures of operation.



OCSP® Field Inspection Report Page 2 of 4





OCSP® Field Inspection Report Page 3 of 4





OCSP® Field Inspection Report Page 4 of 4



 BY
 Kurt Johnson
 TITLE
 PND Inspector

All work monitored was performed in accordance with the plans and specifications to the best of my knowledge, unless noted otherwise in this report.



OCSP® Field Inspection Report Page 1 of 4

Project: POA No	rth Extension- (OCSP	®	Date:	10-18	8-09		Reviewed By	DRAF	[
PND Project No.:	061028			Day	Sun	day		Reviewed Date		
CONTRACTOR:	MKB Construc	ctors	WEAT	HER		Clear		SHEET PILE		
								CELL #'s		
Project Manager	Andy Romine		WIND			Light bi	eeze	TAIL WALL #'s	K,AJ,BC	G,BK
QAP	Richard Welke	r	TEMP			45				
Superintendant										
Foreman	Steve Moe		TIME C	ON JOBSI	TE	(4 hrs)	PND			
EQUIPMENT USE	D:									_
Manitowoc 4000W	Crane		Manitow	voc 2500	Crane	Blue	X	Volvo L180C Loader/	Forklift	X
Manitowoc 4100W G	Crane black tip	X	Manitow	voc 2500	Crane	Orange	X	APE 200-6 Vibratory I	Hammer	X
Manitowoc 4100W G	Crane orange tip	X	Kobelco	CK2500	Crane	Yellow	X	BSP SL30 Hamm	ner	X
OBSERVED PRO	OGRESS, UNUS	UAL	CONDIT	IONS, I	MEE	FINGS:		JM 115 Impact Han	nmer	

Items Inspected/Locations/Comments

- Arrival on site 12:30 pm
- MKB South pad, South end 2500 blue on arrival driving extended tail wall BK with 200-6 vibe hammer.
- MKB South pad, South end 4100W orange tip on arrival driving tail wall BG with BSP-SL30 impact hammer.
- Sandstrom South pad, South end -1500 white hoisting man basket for instrumentation activities.
- MKB South pad, North end 2500 yellow on arrival driving tail wall AJ with 200-6 vibe hammer.
- MKB North pad 2500 orange on arrival stabbing and driving tail wall K sheets with 200-6 vibe hammer.
- MKB Wet Barge Berth 4100W black tip on arrival idle while man basket is brought to pad for fresh heading.
- MKB loader pairing and staging sheets and 2 welders repairing pulled sheets from cells 38 & 39
- AKUDS splice operations. AIX QC welds. IICS QC on coatings.
- Manson dredge was outside cells 34-38 of the NE..
- MKB South pad, South end 2500 blue at departure driving extended tail wall BK with 400 vibe hammer & stinger.
- MKB South pad, South end 4100W orange tip at departure impact driving tail wall BG with BSP-SL30 hammer.
- Sandstrom South pad, South end -1500 white hoisting man basket for instrumentation activities.
- MKB South pad North end 2500 yellow hoisting man basket for doubler plates welded to sheets for pulling tail wall AJ.
- MKB North pad 2500 orange at departure idle while pulled sheets from cells 10-12 where being sorted and cleaned for restabbing.
- MKB Wet Barge Berth 4100W orange tip crane idle while BSP-SL30 hammer was being repaired.
- MKB Wet Barge Berth 4000w idle.

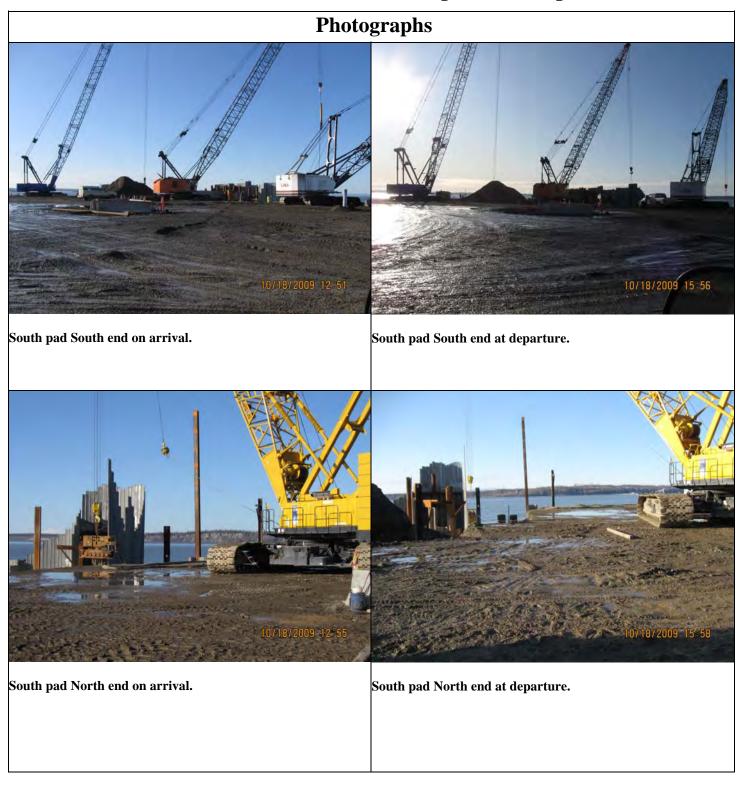
Summary of Outstanding Deficiencies:

Sheet handling, Installed sheets, anchors and wyes out specified plan location, dike slopes, driving with hammers out of plumb, interlock fit issues at wye welds and splices.

PND is not responsible for Contractors safety programs, QC program, Contractors equipment, methods or procedures of operation.

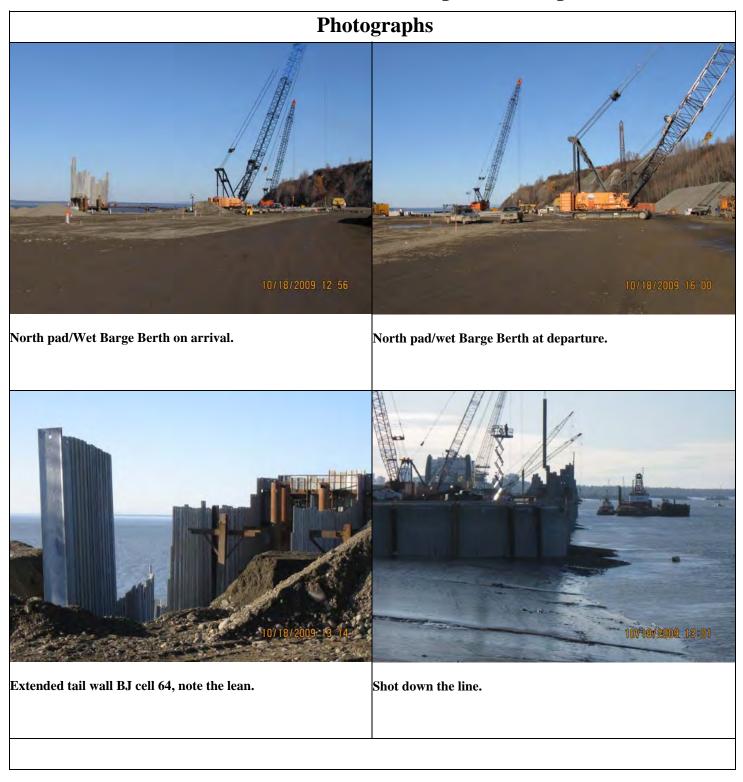


OCSP® Field Inspection Report Page 2 of 4



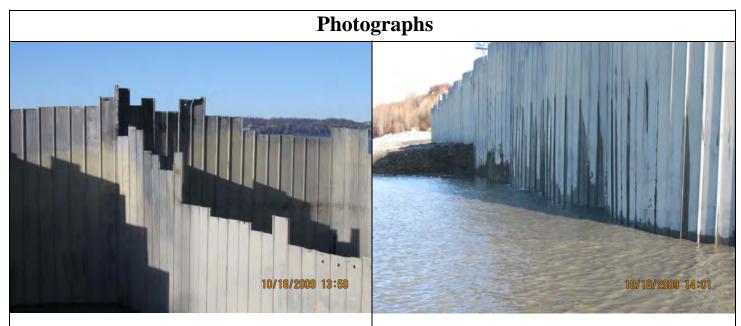


OCSP® Field Inspection Report Page 3 of 4

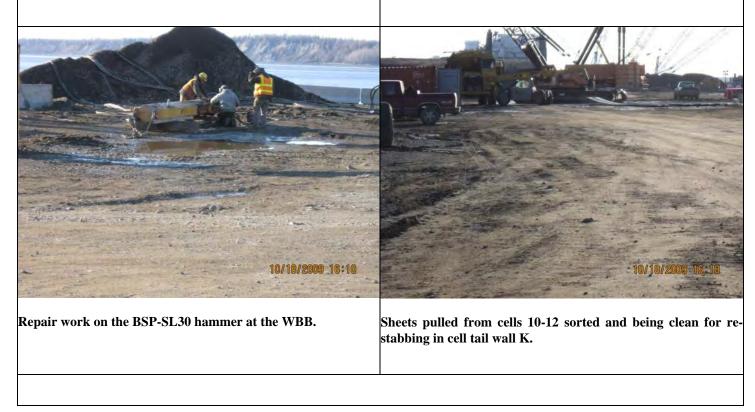




OCSP® Field Inspection Report Page 4 of 4



Wet Barge Berth cells 36&37 note recent fresh headingWet Barge Berth cells 36-38 note the level of the water coming activities.



BY Kurt Johnson TITLE PND Inspector

All work monitored was performed in accordance with the plans and specifications to the best of my knowledge, unless noted otherwise in this report.



OCSP® Field Inspection Report Page 1 of 4

Project: POA Nor	rth Extension- (OCSP	®	Date:	10-2	2-09		Reviewed By	DRA	FT
PND Project No.:	061028			Day	Thu	irsday		Reviewed Date		
CONTRACTOR:	MKB Construc	tors	WEAT	HER		Overcas	t	SHEET PILE CELL	12,	39,
								#'s	62-63	3
Project Manager	Andy Romine		WIND			Light		TAIL WALL #'s	AJ ,K	C C
Superintendant			ТЕМР			45degre	es F			
Foreman	Larry/Ward		TIME C	ON JOBSI	ТЕ	(5hrs) I	PND			
EQUIPMENT USE	D:									
Manitowoc 4000W C	rane		Manitow	oc 2250 (Crane	blue	X	Volvo L180C Loader/ Fork	lift	X
Manitowoc 4100W C	rane	X	Manitow	oc 2250	Crane	orange	X	APE 200-6 Vibratory Ham	ner	X
Manitowoc 4100W C	rane orange tip	X	Kobelco	CK2500	Crane	e Yellow	x	BSP SL30 Hammer		X
OBSERVED PRO	GRESS, UNUS	UAL	CONDIT	'IONS, I	MEE	FINGS:		JM 115 Impact Hammer		

Items Inspected/Locations/Comments

- Arrival on site 12:00 pm.
- MKB South pad: Blue 2250 crane setting third template for cell 66 end cell. Welders tacking in templates.
- Orange tip 4100W crane impact driving cell 62 and 63.
- Yellow 2500 crane stabbing and driving extended tail wall AJ sheets.
- Lima crane held man basket but idle.
- MKB North pad: Orange 2250 crane stabbing and driving extended tail wall K sheets.
- Black tip 4100W in WBB used to fly skiff and as support for divers.
- MKB loader staging/pairing sheets.
- QAP hauling fill, grading, rolling cells 44-50 and cleaning silt from cell 51 and 52 at low tide.
- TWA surveyors on site shooting wyes and settlement monitors.
- Manson dredge was outside cell 64, 65 of the North Extension. QAP was concerned that dredging may be too close to the current cells.
- Inclinometers SKT1 (cell 54) and QAP (cell 55) were partially exposed while ramping down into cells for fill operations.
- Global Offshore Divers on site for WBB sheet inspection. See attached email regarding inspection.

Summary of Outstanding Deficiencies:

Large fill differential at cell 13 causing some deformation of tail wall sheets.

PND is not responsible for Contractors safety programs, QC program, Contractors equipment, methods or procedures of operation.



OCSP® Field Inspection Report Page 2 of 4



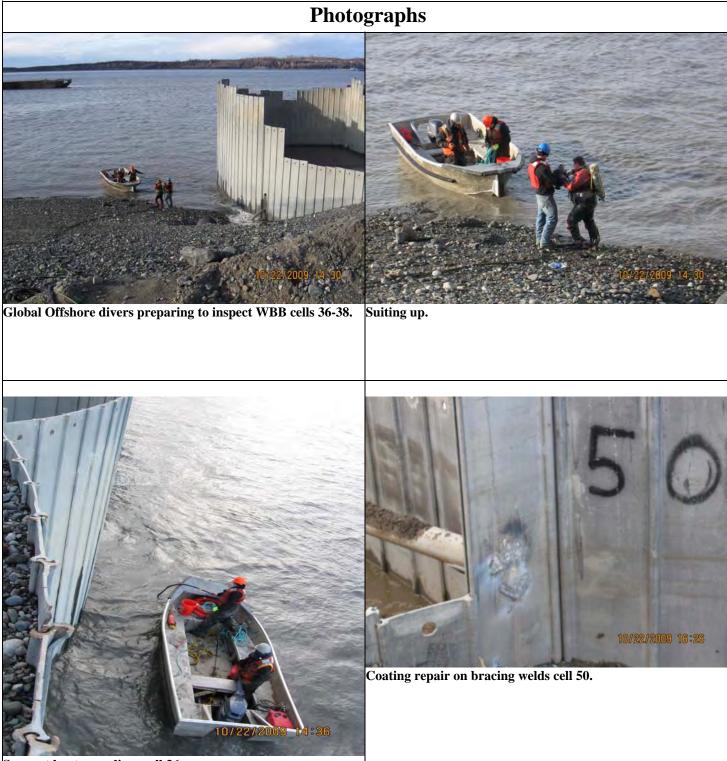


OCSP® Field Inspection Report Page 3 of 4





OCSP® Field Inspection Report Page 4 of 4



Support boat over diver cell 36.

 BY
 Kai Vedenoja
 TITLE
 PND Staff Engineer

All work monitored was performed in accordance with the plans and specifications to the best of my knowledge, unless noted otherwise in this report.

Kai Vedenoja

From:
Sent:
To:
Cc:
Subject:
Attachments:

Kai Vedenoja Thursday, October 22, 2009 6:25 PM 'Williams, John K.'; Garth Howlett; Jim Campbell 'Serenity Schmidt'; Chuck Kenley; Kurt Johnson POA Wet Barge Dive Inspection WBB Dive Inspection.pdf

All-

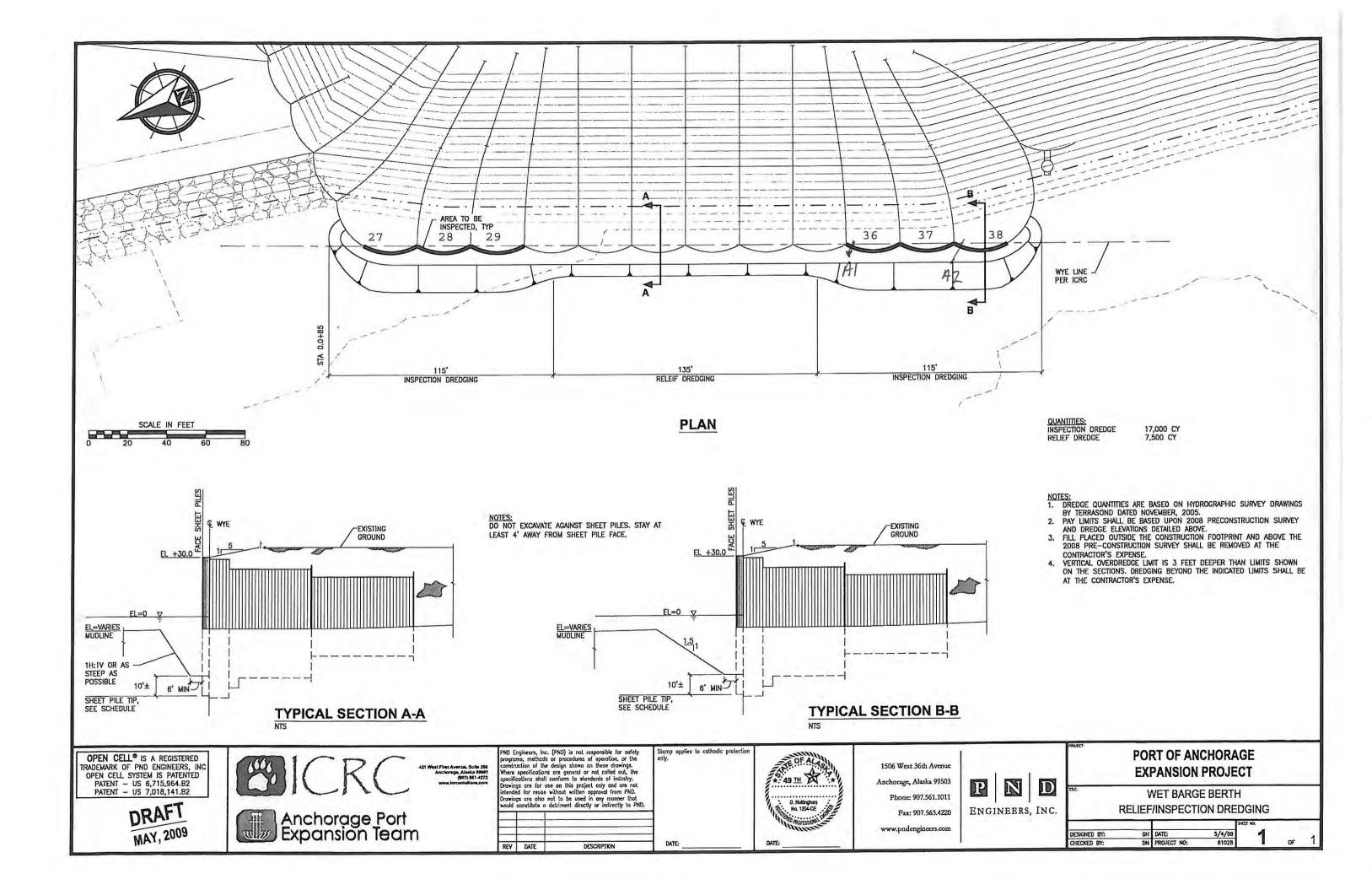
Today Global Offshore Divers performed an underwater inspection of wet barge berth cells 36-38. The area in front of the cells was dredged to approximately -25 to -30 MLLW which was about ten feet from final sheet pile tip elevation. The inspection began at wye AI(35/36) and progressed south toward the end of the dredge trench near the corner of cell 38. The diver reported a pile of material between the toe of the sheets and the bottom of the dredge trench. He stated that most interlocks were relatively clear of soil and native material but some required cleaning with a hand sweep or knife. The diver knelt on the top of the pile and began the inspection from the mud line up approximately 5 feet. The diver used two methods for inspecting interlocks. First he ran his fingers or a knife down the inside of the thumb finger interface of the two sheets then used a bag of clean water pressed onto the interlock to visually check the interlock. The divers found two main areas of concern A1 and A2 labeled on the attached drawing. Face sheets on the inspected cells were numbered from 1-17 starting at the North side wye and ending at the South wye. All the sheets inspected were 70' PS31 face sheets.

A1: Cell 36 Sheet 2 and 3 were curled in toward the shore. The interlock between sheets 1 and 2 had separated to about 3.5' above mud line. The separation starts at about elevation -22 MLLW this is approximately 14' from the sheet pile tip. The diver reported that at mud line there was approximately a 3 foot horizontal (shoreward) displacement between the sheets. He reported reaching through the triangular shaped opening and touching the tail wall on the inside of the cell. The interlock between sheet 3 and 4 appeared to be intact above mud line but may be damaged below the mud.

A2: Cell 38 sheet 2 was again curled in toward the shore at about 2 feet above mud line. The separation of these two sheets starts at about -24 MLLW which is approximately 10.5' from the tip of the sheet. The diver reported about a 6 " horizontal separation between the sheets with sheet 2 displaced shoreward. The interlock between sheet 2 and 3 appeared to be intact in the area inspected.

All other interlocks appeared to be intact in the area inspected. The Dive team leader has been asked to provide a summary report of their findings. I will forward it on when it becomes available.

Kai Vedenoja, EIT Staff Engineer P | N | D Engineers, Incorporated 1506 West 36th Avenue, Anchorage, AK 99503 p. 907.561.1011 f. 907.563.4220 kvedenoja@pndengineers.com| www.pndengineers.com





INSPECTOR	R: Robert Wilson (RK	W)		WORK	ORDER:	A32280
WEATHER:	showers	REPORT ID.:	2009.08.28rkw		PAGE:	1 of 12
TEMPERAT	TURE: $45-60^{\circ}F \pm$	REVIEWED BY:		REVIE	W DATE:	
CONTRACT	TOR: QAP	PROJECT MGR:	Tom Pitt	SUPERINTE	ENDENT:	Steve Stichler
CONTRACT	TOR: MKB	PROJECT MGR:	Andy Romine	SUPERINTE	ENDENT:	Tom Glenn
Tide A	AM High 1:01 @ 25.1'	PM High 2:35 @ 23.3'	AM Low 8:06	@ 3.9'	PM Low	8:19 @ 11.5'

Report to: John Williams, Serenity Schmidt, Chris Locke, Corey Knowles (ICRC); Kai Vedenoja, Kurt Johnson (PND); Steve Schwicht (DOWL HKM)

MAJOR ACTIVITY: Day Shift (6:00 am to 4:00 pm)

- Blue 2250 Crane: Exchanged hammers for the APE 200-4 with the extended jaw unit and drove extended tail wall 58/59 sheets to finish grade. It was then used to remove templates from the same location to enable a loader to backfill the wall just driven. They then went back to cells 56 and 57 and removed soldier piles and templates from there and began setting them up for cell 59.
- Orange 2250 Crane: Servicing crane for the first two hours of the day, then drove intermediate piles with Ape 200-6 hammer at tail wall 27/28 for just over an hour. Next the APE required service lasting just over an hour followed by stabbing extended tail wall piles taking another hour. The rest of the work day was spent driving extended tail wall 27/28 piles.
- 4100 (Orange tip) Crane: Drive shaft broken Idle all shift.
- 4100 (Black tip) Crane: Idle the first three hours and then was used the rest of the day driving piles in cells 51/52 and 54/55 with the SL-30 impact hammer.
- 4000 Crane: Idle all shift
- Kobelco CK2500 Crane: They were placing soldier piles and template for extended tail wall 27/28till 9:00, and then stabbing piles there for the next two hours. At 11:00 the crane moved to the north pad, picked up an APE 200-6 and power unit, and then took it to cell 35-37 area where it was used the rest of the day to vibra- compact the face of the fill the rest of the day.
- White 1500 SC Crane: Idle until 9:30 when the crane was moved to the wet barge area with a man basket to fresh head piles. At 1:30 it picked up a 7.2 HIH hammer and drove on sheets of cell 37 WBB.
- ADUS Welders: Full crew working.
- Denali Drilling: off cell NE14 doing SPT testing for a vibra-compaction test pattern.

Topics (when applicable)

Visitors to job:

Inspections performed:

Discussions with QAP, MKB, PND, or QA Services:

Earthwork performed: Backfill of extended tail wall 58/59, and hauling material from the pit to the center stockpile.

Hindrances- MKB / QAP:

Whale info: Whale observers in place all shift. One sighting reported. (15 minutes each on 4 cranes)

Force Account / change order tracking:

Personnel MKB: 22

Personnel QAP: 9

Vibro-compaction probes: yesterday's shift reported

DOWL HKM

Sheet piles in place at beginning of shift

- Tail-Wall 9 /10 (I) has 43 piles and the intermediate anchor in place.
- Tail-Wall 10 /11 (J) has 43 piles and the intermediate anchor in place.
- Tail-Wall 11 /12 (K) has 43 piles and the intermediate anchor in place.
- Tail-Wall 12 /13 (L) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 13/14 (M) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 14/15 (N) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 15/16 (O) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 16/17 (P) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 17/18 (Q) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 18/19 (R) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 19/20 (S) has all piles in place and tail wall piles driven to below pad grade. (from 10 sheets past IA to end to FG)
- Tail-Wall 20/21 (T) has all piles in place and tail wall piles driven to below pad grade. (from 11 sheets past IA to end to FG)
- Tail-Wall 21/22 (U) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 22/23 (V) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 23/24 (W) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 24/25 (X) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 25/26 (Y) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 26/27 (Z) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 27/28 (AA) has all piles in place.
- •
- Tail-Wall 37/38 (AI) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 38/39 (AJ) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 39/40 (AK) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 40 /41 (AL) has all piles in place and tail wall piles driven to below pad grade.(end 38± sheets driven to final grade)
- Tail-Wall 41 /42 (AM) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 42 /43 (AN) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 43 /44 (AO) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 44/45 (AP) has all piles in place and tail wall piles driven to below pad grade. (end 36± sheets to final grade)
- Tail-Wall 45/46 (AQ) has all piles in place and extended tail wall piles driven to final grade)
- Tail-Wall 46/47 (AR) has all piles in place and tail wall piles driven to below pad grade. (end 20± sheets to final grade)
- Tail-Wall 47/48 (AS) has all piles in place and tail wall piles driven to below pad grade (IA + 2 to IA +25 to FG)
- Tail-Wall 48/49 (AT) has all piles in place and tail wall piles driven to below pad grade (end 20± sheets to final grade)
- Tail-Wall 49/50 (AU) has all piles in place and tail wall piles driven to below pad grade (end 20± sheets to final grade)
- Tail-Wall 50/51 (AV) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 51/52 (AW) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 52/53 (AX) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 53/54 (AY) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 54/55 (AZ) has all piles in place and tail wall piles driven to below pad grade. (IA+12 to end to final grade)
- Tail-Wall 55/56 (BA) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 56/57 (BB) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 57/58 (BC) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 58/59 (BD) has all piles in place.



PAGE 3 28-AUGUST-09

Blue M	Ianitov	woc 225	0	<mark>Idl</mark>	<mark>e column X</mark> =	idle for	other than mec	hanical l	M=idle for med	chanical	reasons.	O = Marine o	bservers shut down Describe in notes.
Time		ng Tem			in progr	ess				Wat		Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
6:00				х									
					Х								
								Х			Х	58/59	
								X			X		1
7:00								X			X		
								X			X		Drive extended tail wall 58/59 sheets with the APE 200-4 hammer with the extended
								X					jaw attachment.
								X					
8:00								X			X		-
													-
								Х			Х	58/59	
	-				X							50/57	-
9:00					Х								Remove extended tail wall template
9.00	-				X								-
					X								T 1 1 1 (*11*
					Х							50/50	Loader backfilling
10.00					Х							58/59	_
10:00					X								
					Х								Remove intermediate tail wall template
					Х								
					Х								
11:00								х		х		58/59	
								х		Х			Remove intermediate tail wall soldier pile
								Х		Х			
								X		Х		56	
12:00								X		X			Remove soldier piles with Ape 200-6
								X		X			
				х				Δ		Λ			
				1									-
13:00	1			X									Idle
				X									-
	1			X									
	1	}			X							59	-
14:00	<u> </u>							X		X		57	Placing soldier piles
14.00								X		Х			Whale shut down
				0								59	whate shut down
	I							Х		Х		39	4
15.00	 			<u> </u>				X		X			4
15:00								Х		Х			Placing soldier piles with Ape 200-6
								Х		х			1
								Х		х			
								Х		х			
16:00													



PAGE 4 28-AUGUST-09

Orang	e Mani	itowoc 2	2250		Idle colum	n X= idle	for other than	mechanic	al M=idle for	r mechai	nical reaso	ons. O = Mar	ine observers shut down Describe in notes.
Time	Drivi	ng Tem	plate	Work	in progr	ess				Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
6:00				Х									
				Х									
				X									1
				X									
7:00	1			X							1		Crane idle while holding APE 200-6 at cell 23
	1			X									
				X									
				X									
8:00											ł – –		1
				X				N/			W	27/28	
								X			X	2//20	-
	┨────	<u> </u>	}					X			X		Driving sheets with APE 200-6 vibrating
9:00								X			X		hammer.
2.00								X			X		4
								X			X		
					X								4
10.00				Х									Servicing hammer
10:00				X									4
				X								25/20	
					Х							27/28	Work on template
					X								
11:00						х						27/28	
						Х							Stabbing extended tail wall sheets
						х							
						X							
12:00								X		х		27/28	Driving with APE 200-6
								Х		х			ç
				Х									Lunch
				Х									
13:00								Х		Х		27/28	
								X		Х]
	Ī							X		X	İ		Driving with APE 200-6
								X		X			1
14:00	t –			1		1		X		X	l		1
	1		1	0									Whale shut down
	1	1	1					X		х		27/28	
	1							X		X			Driving with APE 200-6
15:00	1							X		л Х			1
	1	<u> </u>			v			Λ		Λ		27	
					X								Removing tail wall template
	ł –				X								1
16:00	1	1	l	1	Х					1	1		
10.00	1												



PAGE 5 28-AUGUST-09

Manito	owoc 4	100 (Or	ange tip))	Idle of	column X	= idle for othe	r than me	chanical M=io	ile for n	nechanica	l reasons. O =	= Marine observers shut down Describe in notes.
Time	Drivi	ng Tem	plate	Work	in progr	ess				Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
6:00				М									
				M									
	1			M									1
				M									
7:00				M									-
				M									1
				M									-
													-
8:00				M									-
0.00				M									-
	-		-	M	-								4
				M									4
0.00				Μ									4
9:00				Μ									4
				Μ									4
				Μ									4
				Μ									
10:00				Μ									
				Μ									
				Μ									
				Μ									Drive shaft broken
11:00				Μ									
				Μ									
				Μ									
				Μ									
12:00				М									
				М									
				М									
				M									1
13:00	Ī			M				İ		Ī	l		1
	1			M		1		İ		1	İ		1
	1			M								1	1
	1	1	1	M								1	1
14:00	1			M						1	1	1	1
	1			M						1			1
	1			M						1			1
				M									1
15:00		<u> </u>		M								1	1
	-			M									1
													1
				M									1
16:00		L	I	Μ	l			l		I	L	l	
10.00													



PAGE 6 28-AUGUST-09

Marine observers shut down Describe in notes.	O = M	reasons. O =	chanical 1	le for me	anical M=id	than mech	idle for other	olumn X=	Idle co		ck tip)	100 (Bla	woc 41	Manito
Notes:	/	Cell /	er?	Wat				ess	in progr	Work	olate	ng Temp	Drivi	Time
	s	Piles	out	in	Hammer	Vibe	Vib-Stab	Stab	Staging	Idle	Deck	Frame	Piles	
										Х				6:00
										Х				
										Х				
										Х				
										Х				7:00
Hooked up man basket and sat idle										Х				
r i i i i i i i i i i i i i i i i i i i										Х				
										Х				
										Х				8:00
										Х				
										Х				
										Х				
break										В				9:00
Pick up S130 hammer									Х					
	2	51/52	Х			Х								
Drive sheets by intermediate anchor with			Х			Х								
SL-30 impact hammer.			Х			Х								10:00
				Х		Х								
Work on hammer										Μ				
										Μ				
Move to area of cells 54-									х					11:00
	5	54-55		Х		Х								
				Х		Х								
Driving face sheets on cells 54 and 55				Х		Х								
				Х		Х								12:00
				Х		Х								
Lunch										Х				
										Х				
	5	54-55		Х		Х								13:00
				Х		Х								
Driving face sheets on cells 54 and 55				Х		Х								
				х		Х								
				X		X								14:00
Whale shut down										0				
	5	54-55		х		Х								
				Х		Х								
Driving face sheets on cells 54 and 55				Х		Х								15:00
				X		X								
				Х		X								
				X		X								
														16:00



PAGE 7 28-AUGUST-09

Manito	owoc 4	000		I	dle column 2	X= idle fo	or other than m	echanical	M=idle for m	echanic	al reasons	. O = Marine	observers shut down Describe in notes.
Time	Drivi	ng Tem	plate	Work	in progr	ess				Wat	ter?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
6:00				Μ									1
				M									1
				M									1
				M									1
7:00				M									1
				M									1
				M									1
				M									1
8:00				M									-
				M									1
				M									-
		<u> </u>		M									1
9:00		<u> </u>		M									1
				M									-
				M									4
				M									4
10:00				M									1
				M									1
				M									1
				M									-
11:00				M									Idle all shift, work being done on unit.
11100				M									4
				M									4
													-
12:00				M M									1
12.00													-
				M									-
				M									-
13:00				M									4
15.00				M									4
				M									4
				M									4
14:00				M									4
14:00	<u> </u>	 		M									4
	<u> </u>	 		M									4
	<u> </u>			M									4
15.00	<u> </u>			M									4
15:00	<u> </u>			Μ									4
	<u> </u>			Μ									4
	<u> </u>			Μ									4
				Μ									<u>]</u>
16:00													



I eno	KODCI	co 2500		1	dle column	X = 1 dle fo	or other than m	echanical	M=idle for r	nechanic	cal reasons	s. O = Marine	e observers shut down Describe in notes.
Time	Drivi	ng Tem	plate	Work	in progr	ess				Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
6:00				Х									Idle
				Х									1000
					Х							27/28	
					X								
7:00					X								
					X								
					X								Staging soldier piles and template for
					X								extended tail wall
8:00					X								
					X								
					X								
	1				X					1			1
9:00					A	X						27/28	1
						X							1
						X							
						X							
10:00						X							Stab extended tail wall sheets
						X							
						X							
11:00					v	X							Move to cell 37
				х	Х								
				X									Then move north, pick up Ape 200-6 with
													power unit and move back to cell 35-37
12:00				X X									area
				X L									
				L									Lunch
13:00								v		v		35-37	
								X		X			1
								X		X			Vibe face of fill with H pile
								X		X			1
14:00								X		X			1
100				0				X		Х			Whale shut down
				0									Whate Shut down
								X		X			1
15:00								X		X			Vibe face of till with H pile.
15.00								X		Х			· · · · · · · · · · · · · · · · · · ·
								Х		X			1
								X		Х			
	1	1	1	Х	1	1		1	1	I	1		



PAGE 9 28-AUGUST-09

White	1500 S	C Cran	e		Idle columr	n X= idle	for other than	mechanic	al M=idle for	mechan	ical reaso	ns. O = Marii	ne observers shut down Describe in notes.
Time	Drivi	ng Tem	plate	Work	in progr	ess				Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
6:00				Х									
				Х									
				Х									
				Х									
7:00				Х									
				Х									
				Х									At wet barge berth area cells 36-38 with
				Х									operator at crane (IDLE)
8:00				Х									1
				X									1
				Х									1
				X									1
9:00	1			X						1			1
				X									1
				X								36-38	
				X									1
10:00				X									1
				X									1
				X									
				X									
11:00				X									
				X									Fresh heading sheets in the wet barge area.
				X									Fresh heading sheets in the wet barge area.
				X									
12:00				X									
				X									
				X									
				X									
13:00	1			A X									1
	1			A X						1			1
	1								X	х			
	1									X			Driving piles with 7.2 HIH impact hammer.
14:00	1												- nammer.
	1			0					A	Λ			Whale shut down.
	1								x	x			
	<u> </u>								X	X			1
15:00	<u> </u>								X	X			Driving piles with 7.2 HIH impact
									X	X			hammer.
													1
	1								X	X			1
16:00	1	1	1	<u>I</u>		I	I	I	Х	Х	I		





Figure 01



Figure 02



Figure 03



Figure 05



Figure 04



Figure 06



In Use	Idle	Make	Description	Model	Id No.
X		Manitowoc	Lattice Boom Crane	4100W–black tip	
	X	Manitowoc	Lattice Boom Crane	4100W– orange tip	
	X	Manitowoc	Lattice Boom Crane	4000	
X		Manitowoc	Lattice Boom Crane	2250 (blue)	
X		Manitowoc	Lattice Boom Crane	2250 (orange)	
X		Kobelco	Lattice Boom Crane	Yellow	
X		APE	Vib Hammer W/power unit	200-6	
X		APE	Vib Hammer W/power unit	200-6	
X		APE	Vib Hammer W/power unit	200	
	X	APE	Vib Hammer W/power unit	400	
	X	APE	Vib Hammer w/power unit	KING KONG	
Х		BSP/PACO	Impact Hammer	SL-30	
	X	BSP/PACO	Impact Hammer	SL-30	
Х		APE	Impact Hammer	7.2 HIH	
	Х	Grove	Man Basket	MZ 116C	
	Х	Grove	Man Basket	MZ 90	
Х		Genie	Man Basket	1073606	
		Whisperwatt	25KW Generator		982345
Х		Ford	4 Door PU Truck		
			Utility Bed Truck	2006 (half ton)	
			Utility Bed Truck with welder	1997 ()	
	Х		Boat		AK6492L
Х			Man Lift		
Х		Volvo	Front End Loader	L180C	
Х		Volvo	Front End Loader	L150E	

QAF	P Dail	y Equipment L	og		
In Use	Idle	Make	Description	Model	Id No.
	Х		Belly Dump Haul Truck	773B	2.72.022
	Х		Belly Dump Haul Truck	773B	2.72.005
	Х		Belly Dump Haul Truck	773B	2.72.015
	Х		Belly Dump Haul Truck	773B	2.72.016
	Х		Belly Dump Haul Truck	773B	2.72.004
	X		Belly Dump Haul Truck	773B	2.72.003
	X		End Dump Haul Truck	773D	2.72.018
	X		Belly Dump Haul Truck	773B	2.72.002
	X		End Dump Haul Truck	773B	2.72.021
3			End Dump Haul Truck	773D	2.72.017
	X		Belly Dump Haul Truck	773D	2.72.023
	X		End Dump Haul Truck	773B	2.72.006
X			Water Truck	K-1200	2.72.024
X		Kenworth	Fuel Truck		AK EMP748
		Dodge	Repair Truck	2500	
Х			Flat Bed	INT1021	ENN 755
			Repair truck (NIC Mac)		Ak000812
	X	Volvo	Front end loader	L180F	
X		Volvo	Front End Loader	L220E	
X		САТ	Front end loader	988G	
	Х	САТ	Front end loader	992C	
Х		Ingersoll Rand	Roller		2.13.009
Х		CAT	Dozer	D-10N	2.51.005
	X	САТ	Dozer	D-10N	2.51.003
X		Komatsu	Dozer	D61PX	
	X	CAT	Grader		2.40.013
	X	CAT	Grader		2-40-011
	X	Komatsu	Excavator	PC1100LC	2.33.008
X		Hitachi	Excavator	EX700	2.32.007
	X		Boat		

INSPECTO	DR:	Paul Twichell (PT)			WORK	ORDER:	A32280
WEATHE	R:	clear	REPORT ID.:	2009.09.03pt		PAGE:	1 of 11
TEMPERA	TURE:	$F \pm 61; 60$	REVIEWED BY:		REVIE	W DATE:	
CONTRAC	CTOR:	QAP	PROJECT MGR:	Tom Pitt	SUPERINT	ENDENT:	Steve Stichler
CONTRAC	CTOR:	MKB	PROJECT MGR:	Andy Romine	SUPERINT	ENDENT:	Steve Moe
Tide	AM Hig	sh: 7:13 @ 28.6'	PM High: 7:50 @ 29.2'	AM Low: 1:	45@ 3.3'	PM Low:	: 2:06 @ -0.6'
Tide	Tide AM High 7:48 @ 29.5'		PM High: 8:18 30.0'	AM Low 2:2	1 @ 2.3'	PM Low:	: 2:42 @ -0.3'

Report to: John Williams, Serenity Schmidt, Chris Locke, Corey Knowles (ICRC); Kai Vedenoja, Kurt Johnson (PND); Steve Schwicht (DOWL HKM)

MAJOR ACTIVITY: Night Shift (4:00 pm to 2:00 am)

- 2250 (blue) crane: finished tail wall BE to the intermediate anchor and then staged for the extended tail wall. QAP dug out the trench for the extended tail wall and they installed the tail wall template for the remainder of the shift.
- 4100(orange) Crane: was down with a blown hydraulic hose until 20:00 then used the impact hammer on cell 55 and tail wall BA. After the marine mammal viability shut down they installed wye to wye braces.
- 2250 (orange) Crane: worked on the template in cell 27 until 18:00 then used the vibratory hammer on cell 28 and tail wall AA until the marine mammal shut down at 21:20. They worked on the template in cell 27 for the remainder of the shift.
- 4100 (Black tip) Crane: used the APE hammer operated by the operator of the other 4100 crane until that one was repaired. It was then idle for the remainder of the shift.
- 4000 Crane: Not in service this shift. Some work was on going at the beginning of the shift but stopped by 18:00.
- Kobelco 2500: flew the SL30 impact hammer on the face of cell 43 until the marine mammal visibility shut down at 21:35. They worked on the jetting for the remainder of the shift.
- White Sandstrom Crane: Not in service this shift.

Topics (when applicable)

Visitors to job: Kurt Johnson; Northstar crew

Inspections performed: none23:45 until the end of the shift.

Discussions with QAP, MKB, PND, or QA Services:

Earthwork performed: dug out extended tail wall BE. Watered the job site. Cleaned up with the loader.

Hindrances- MKB / QAP:

Whale info: Low tide window was from 23:45 until the end of the shift.

1300m visibility shut down at: 21:20

800m (weather only):

350m visibility shut down was at: 21:35

Force Account / change order tracking:

Personnel MKB: Edward Burggraf; Steve Moe

10 pile bucks

3 crane operators

2 utility operator

1impact driving observer

Personnel QAP: Richard Welker, 1 utility operator.

Pile Driving Notes: very little if any movement on driving cell 43.

The jetting probe had been repaired by the time of the marine mammal visibility shut down and the crew and the crane worked on getting the probe into operation. The pump was turned on and the probe went to the desired depth.



PAGE 2 03-SEPTEMBER-09

Blue M	Ianitov	woc 225	0		Idle columi	n X= idle	for other than	mechanica	al M=idle for	mechan	ical reasor	ns. O = Mari	ine observers shut down Describe in notes.
Time	Driv	ing Tem		Work	in prog	ress	-		•	Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
15:30													
16.00												BE	
16:00								X		X		BE	
								X		Х			-
								X		Χ			-
				-			-	X		Χ			
17:00								Χ		Χ			
								X		Χ			
								Χ		Χ			
								Х		Х			
18:00								Х		Χ			
								Х		Χ			
					X					Χ			Finished with the intermediate toil wall;
					X					Х			stand by while QAP digs the extended tail
19:00					X					Х			
					X					Х			
					Х					Х			
					Х					Х			
20:00					X					Χ		BE	QAP dug out extended tail wall
					X					X			
					X					X			
					X								
21:00	Х											57	Pull spud piles inside of cell.
	X												
	X												
	X												
22:00	X												
	X												
	X												
	X												
23:00	X							ł – –					
	X												
	X							ł – –					
	X												
24:00	Λ		X									BE	Install template for extended tail wall
21.00												DL	
		-	X				+			╂──			
			X										1
01:00			X							<u> </u>			<u> </u>
01.00			X	<u> </u>				<u> </u>		<u> </u>			
			X										
			X				 			<u> </u>			
2.00			X							<u> </u>			
2:00			X							<u> </u>			
02.20	ļ			<u> </u>						<u> </u>			L
02:30													



PAGE 3 03-SEPTEMBER-09

Time Driving Term Date Ide Stage Vib Vib Hammer In out Piles Mote:: Piles Frame Deck Ide Stage Vib Wib Hammer In out Piles 15:00 Im	ge Manit	itowoc 2	250		Idle colum	ın X= idle	for other than	mechanic	al M=idle for				ine observers shut down Describe in notes.
15:30 I <th>Drivir</th> <th>ing Tem</th> <th>olate</th> <th>Worl</th> <th>c in progi</th> <th>ess</th> <th>i</th> <th>i</th> <th>i</th> <th></th> <th></th> <th></th> <th>Notes:</th>	Drivir	ing Tem	olate	Worl	c in progi	ess	i	i	i				Notes:
16.00 1 <th1< th=""> 1 1 1<th>Piles</th><th>Frame</th><th>Deck</th><th>Idle</th><th>Staging</th><th>Stab</th><th>Vib-Stab</th><th>Vibe</th><th>Hammer</th><th>in</th><th>out</th><th>Piles</th><th></th></th1<>	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
Image: state of the													
Image: state of the	_											27	
Image: Section of the section of t	_											27	
Image: style		_											
17:00 X X I I X I I X I I X I I I X I I I X I I I X I I I X I I I X I I I X I <td></td> <td>_</td> <td>Х</td> <td></td>		_	Х										
Image: definition of the second system o			Х							Х			
I X I I I X I I X I I X I I X I I X I I X I I I X I													
Image: Normal box of the state of			X							Х			
18:00 I X I I I X X X Z8 I I I I I I X I X I I I I I I I I I I I X I X I I I I I I I I I I X I X I I 19:00 I I I I I I I I I I I 19:00 I I I I I I I I I I I I 19:00 I I I I I I I I I I I I 10:0 I I I I I I I I I I I I 10:0 I I I I I I I I I I 11:0 I I I I I I I I I I 11:0 I I <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>													
Image: Marked box Marked box <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>													
Image: state of the			Х							Х		28	
Image: second								Х		Х			
19:00 I I I I X X X I I I I I I I I I I X I X I I I I I I I I I X I X I I I I I I I I I X I X I 20:00 I I I I I I I I I I 1 I I I I I I I I I I 10:01 I I I I I I I I I 10:01 I I I I I I I I I 11:01 I I I I I I I I I 11:01 I I I I I I I I I 11:01 I I I I I I I I I 11:01 I I I I<								Х					
Image: state of the state													
Image: sector								Χ					
Image: state s													
20:00 X X X X 1 1 1 1 1 1 1 X X X X AA 1 1 1 1 1 1 1 X X X X AA 1 1 1 1 1 1 X X X X AA 21:00 1 1 1 1 1 1 X X X X AA 21:00 1 1 1 1 1 1 X X X X X AA 11:00 1 1 1 1 1 X X X X X 12:00 X 1 1 1 1 1 X X X X 12:00 X 1 1 1 1 1 1 X X 12:00 X 1 1 1 1 1 1 X X 12:00 X 1 1 1										Х			
Image: state of the state								Х		Х			
								Х		Х			
Image: state in the state intermediate in								Х					
Image: sector								Х		Х		AA	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $								Х		Х			
X X X X X X X X X X X X X X X Y Y X X X X X X X Y								Х					
XIIIIIIIIII pud pilesXIIIIIIIIIII22:00XIIIIIIIIIIIIXIIIIIIIIIIIIIIXIIIIIIIIIIIIIIXIIIIIIIIIIIIIIIXIIIIIIIIIIIIIII23:00XII<								Х		Х			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	X												Pull spud piles
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	X												
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	X												
$\begin{array}{c c c c c c c c c c c c c c c c c c c $													
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	X												
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				I		1				I			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	X												
24:00 X I <td></td> <td></td> <td></td> <td></td> <td>ł</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					ł								
X X 28 Work on template X 28 Work on template X X 01:00 X X				İ		1				İ			
X Image: Constraint of the second s		x		l						1		28	Work on template
X I I I I I I I 01:00 X I </td <td></td> <td>X</td> <td></td> <td>l –</td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td>l –</td> <td></td> <td></td> <td></td>		X		l –						l –			
01:00 X													
	┨─┤	Λ X											
	+ +	$\begin{array}{c c} \Lambda \\ V \end{array}$											
2:00 A		Λ											
02:30		1		I	1		1		1	1			



PAGE 4 03-SEPTEMBER-09

Manito	owoc 4	100 (Or	ange tip)	Idle	column X	= idle for othe	r than med	chanical M=io	ile for n	nechanical	l reasons. O =	Marine observers shut down Describe in notes.
Time	Drivi	ng Tem	plate	Work	in prog					Wat		Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
15:30				1									
				1									
16:00				М									Blown hydraulic hose, Northstar working
	-			M									on it
				M									
17:00				M									
17.00				M									
				Μ									
				Μ									
				Μ									
18:00				Μ									
				Μ									
				Μ									
				Μ									
19:00				М									
				М									
				M									
				M									
20:00				111					Х	Х		55	
									X	X			
									X	л Х			
									Λ V	Λ V		BA	At wye
21:00									X X	X		DIX	The wyc
21.00									X	X			
									X	Χ		53	Install www.to.www.hmooo
	-				X							55	Install wye to wye brace
					X								
22:00					X								
					X								
					X								
					X								
23:00					Х								
					X X								
					Х								
	I			ľ	X	Γ				ſ	Γ		
24:00					X	İ							
	1			1	X	1		1		1	1		
	1			1	X					1			
	1	1			X								
01:00		<u> </u>			X								
100					X X								
					Λ V								
					X								
2.00		<u> </u>			Х								
2:00	<u> </u>			 									
	I												
02:30													



PAGE 5 03-SEPTEMBER-09

Manito	owoc 4	100 (Bla	ack tip)		Idle column X= idle for other than mechanical M=idle for mechanical reasons. O = Marine observers shut down Describe in notes.												
Time	Driv	ing Tem	plate	Work	in progr	ess				Wat	er?	Cell /	Notes:				
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles					
15:30																	
16:00					Х								Rigging APE impact hammer				
					Λ X												
					X												
					X												
17:00									Х	Х		W					
									X	Х							
									X	Х							
									Х	Х							
18:00									X	X							
	1	1		1			1		X	X							
		1		1					X	X			1				
				1					X	Λ Χ							
19:00		+		ł						Λ			+				
17.00									X	X							
									X	X							
									X	Х							
									X	Х							
20:00									X	Χ							
				Х									Other 4100 repaired crew shut this one				
				Х									down				
				Х													
21:00				X													
				X													
				X													
				X													
22:00						-						-					
22.00				X													
				Χ													
				Х													
				Χ													
23:00				Х													
				Х													
				Х													
				X													
24:00	1			X		İ				1							
		1		X		1							İ				
		1		X													
				A X													
01:00		+															
01.00				X									<u> </u>				
		+		X													
				X													
				Xx			ļ						_				
2:00				Χ													
02:30	1																



PAGE 6 03-SEPTEMBER-09

Manito	-						er than mechan	<mark>ical M=</mark> i	idle for mecha				rvers shut down Describe in notes.
Time	Drivi	ng Tem	plate	Work	in progr	ess				Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
15:30													Idle all shift. No operator
			-										
16:00													
1= 00													
17:00													
10.00	-												
18:00	<u> </u>		L	ļ									
	1	ł	ł	1									
19:00													
19:00	I		ļ	ļ			ļ		ļ				
20:00			-										
20:00													
21:00													
21.00	_												
22:00													
22.00													
23:00	1			1						1			
2.50	<u> </u>												1
	 			ļ						ļ			
24:00	1	1	t	1	1	1	1	1	1		1		
	1												
	<u> </u>	<u> </u>		 									
										ļ			
01:00	1		1	I						1			
	ł		ł	ł									1
	┨────		<u> </u>										
	1			ļ									
	1												
2:00		1		1									
													1
02.20	ł	1	1	I	l	l	l	l	l		l		
02:30													



		lco 2500					or other than m	nechanical	M=idle for				ne observers shut down Describe in notes.
Time	Drivi	ing Tem	plate	Work	t in prog	ress			Water?			Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
15:30													
16:00									X	Х		43	
									Х	Х			
									X	X			
									X	X			
17:00									X	X			
									X	X			
									X	X			
									X	X			
18:00									Λ V				
10.00									X	X			
									X	X			1
		<u> </u>							X	X			
10.00									X	Х			
19:00	<u> </u>			ļ					Х	Х			
									Х	Х			
									X	Х			
									X	Χ			
20:00									Х	Х			
									X X	Х			
									X	Х			
									X	X			
21:00									X X	X			
					X								Working on jetting.
					X								
					X								
22:00					X								
					Λ V								
					X	-							
					X								l
23:00		 			X								
23.00	<u> </u>			<u> </u>	X								
					Х								
					X								
	ļ			ļ	X								
24:00					Х								
		<u> </u>			X								
					X								
					X								
01:00	1				X								
	Ì			1	X	1		1			1		
	1			1	X	1							1
		<u> </u>			X							1	
2:00					X								
2.00		<u> </u>											
02:30		1		I		1						l	I



PAGE 8 03-SEPTEMBER-09

White	1500 S	C Cran	e		Idle column X= idle for other than mechanical M=idle for mechanical							ns. O = Marii	ne observers shut down Describe in notes.
Time	Drivi	ing Tem	plate	Work	in progr	ess			_	Wat	er?	Cell / Notes:	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
15:30													Idle all shift
16:00													
				1					-				
17:00				1					-				
18:00													
	1												
19:00													
17.00													
20:00													
20:00													
21:00													
22:00													
23:00													
24:00													
	1												
	İ 👘			1									
	1	1											
01:00	1	1											
	1												
	1	ł											
2:00													
2.50													
2:30		I		I		I							
2.50													



PAGE 9 03-SEPTEMBER-09



Figure 01



Figure 03



Figure 05



Figure 02



Figure 04



Figure 06

MKE	B Dail	y Equipment L	og		
In Use	Idle	Make	Description	Model	Id No.
X		Manitowoc	Lattice Boom Crane	4100W–black tip	
X		Manitowoc	Lattice Boom Crane	4100W- orange tip	
	х	Manitowoc	Lattice Boom Crane	4000	
X		Manitowoc	Lattice Boom Crane	2250 (blue)	
X		Manitowoc	Lattice Boom Crane	2250 (orange)	
X		Kobelco	Lattice Boom Crane	Yellow	
X		APE	Vib Hammer W/power unit	200-6	
X		APE	Vib Hammer W/power unit	200-6	
	X	APE	Vib Hammer W/power unit	200	
	X	APE	Vib Hammer W/power unit	400	
	x	APE	Vib Hammer w/power unit	KING KONG	
X		BSP/PACO	Impact Hammer	SL-30	
	X	BSP/PACO	Impact Hammer	SL-30	
X		APE	Impact Hammer	7.2 HIH	
X		Grove	Man Basket	MZ 116C	
X		Grove	Man Basket	MZ 90	
X		Genie	Man Basket	1073606	
	X	Whisperwatt	25KW Generator		982345
X		Ford	4 Door PU Truck		
X			Utility Bed Truck	2006 (half ton)	
X			Utility Bed Truck with welder	1997 ()	
x			Boat		AK6492L
x			Man Lift		
X		Volvo	Front End Loader	L180C	
		Volvo	Front End Loader	L150E	

In	Idle	Make	Description	Model	Id No.
Use					
	х		Belly Dump Haul Truck	773B	2.72.022
	X		Belly Dump Haul Truck	773B	2.72.005
	X		Belly Dump Haul Truck	773B	2.72.015
	X		Belly Dump Haul Truck	773B	2.72.016
	X		Belly Dump Haul Truck	773B	2.72.004
	X		Belly Dump Haul Truck	773B	2.72.003
	X		End Dump Haul Truck	773D	2.72.018
	X		Belly Dump Haul Truck	773B	2.72.002
	X		End Dump Haul Truck	773B	2.72.021
	X		End Dump Haul Truck	773D	2.72.017
	X		Belly Dump Haul Truck	773D	2.72.023
	X		End Dump Haul Truck	773B	2.72.006
Х			Water Truck	K-1200	2.72.024
	X	Kenworth	Fuel Truck		AK EMP748
	X	Dodge	Repair Truck	2500	
	X		Flat Bed	INT1021	ENN 755
	X		Repair truck (NIC Mac)		Ak000812
X		Volvo	Front end loader	L180F	
	X	Volvo	Front End Loader	L220E	
	X	САТ	Front end loader	988G	
	X	САТ	Front end loader	992C	
X		Ingersoll Rand	Roller		2.13.009
	X	CAT	Dozer	D-10N	2.51.005
	x	САТ	Dozer	D-10N	2.51.003
	X	Komatsu	Dozer	D61PX	
	X	САТ	Grader		2.40.013
	X	САТ	Grader		2-40-011
	X	Komatsu	Excavator	PC1100LC	2.33.008
X	1	Hitachi	Excavator	EX700	2.32.007
			Boat		

INSPECTO	DR:	Paul Twichell (PT)			WORK	ORDER:	A32280
WEATHE	R:	clear	REPORT ID.:	2009.09.13pt		PAGE:	1 of 11
TEMPERA	TURE:	$F \pm 62; 48$	REVIEWED BY:		REVIE	W DATE:	
CONTRAC	CTOR:	QAP	PROJECT MGR:	Tom Pitt	SUPERINTI	ENDENT:	Steve Stichler
CONTRAC	CTOR:	MKB	PROJECT MGR:	Andy Romine	SUPERINTI	ENDENT:	Steve Moe
Tide	AM Hig	h: 1:29 @25.7'	PM High: 3;31 @ 24.6'	AM Low: 8:54	4 @ 2.8'	PM Low:	9:15 @ 9.8'
Tide	AM Hig	h 3:06 @ 25.9'	PM High: 4:53 @ 26.5'	AM Low 10:1	7 @ 2.1'	PM Low:	10:43 @ 7.7'

Report to: John Williams, Serenity Schmidt, Chris Locke, Corey Knowles (ICRC); Kai Vedenoja, Kurt Johnson (PND); Steve Schwicht (DOWL HKM)

MAJOR ACTIVITY: Night Shift (4:00 pm to 2:00 am)

- 2250 (blue) crane: used the vibratory hammer on the face of cell 58 and 59 and tail walls BF and BD. By 19:00 they had driven the sheets as far as they could and were pulling cross arms out of the spud piles in cell 59. They pulled a double template out of cell 59 and replaced it with a single level.
- 4100(orange) Crane: used the impact hammer on the face of cell 56 and tail wall BB until the low tide window at 19:15. The crane was moved to cell 52. It remained idle for the rest of the shift.
- Kobelco 2500: Crane: held the man basket while crewmen put doubler plates on the top of sheets in cell 39. They then used the vibratory hammer to attempt to pull the sheets up. After the marine mammal visibility shut down they finished the shift with the man basket repairing a splice at tail wall AK.
- 4100 (Black tip) Crane: used the vibratory hammer on the face of cells 26 and 27 until the low tide window shut them down. The crane was moved to the area of cell 15 where the crew worked from the man basket to place a wye to wye brace in cell 17, install survey targets and cut 4 feet off of the intermediate anchor on tail wall U.
- 4000 Crane: vibraprobe worked in the area behind cell 10 until around 19:30 when bolts broke that hold the clamp jaws to the vibratory head. It was shut down for the shift because there are no replacement bolts on hand.
- 2250 (orange): stabbed sheets in extended tail wall AD all shift.
- White Lima 1500 SC Crane: did not operate this shift.

Topics (when applicable)

Visitors to job: Kurt Johnson;

Inspections performed: checked the sheets staged for the extended tail wall at 30. Observed the recoating of splice plate welds in cells 16 and 17.

Discussions with QAP, MKB, PND, or QA Services:

Earthwork performed: bailed cells 16 and 17 so that the splice plate welds could be recoated.

Hindrances- MKB / QAP:

Whale info: Low tide window was from 19:15 until 23:15.

1300m visibility shut down at: 20:40. The marine mammal observers were called off by MKB as there were no hammers in operation.

800m (weather only):

350m visibility shut down was at:

Force Account / change order tracking:

Personnel MKB: Steve Moe

14 pile bucks

5 crane operators

1 utility operator

Personnel QAP: Richard Welker, loader operator.

Pile Driving Notes: crewmen from MKB recoated the splice plates that were found to be too thin by PND.

Cut approximately 4 feet off of the intermediate anchor in tail wall U.



t

Time	Drivi	ng Tem	nlata	Work	in prog	000				Wat	or	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in in	out	Piles	Notes.
15:30					~8							THES	
10.00													
16:00													
10.00												BF	
								Χ		Χ		BF	
								Χ		Χ			
								Х		Χ			
17:00								Χ		Χ			
								X		Χ		58	
								Х		Χ			
								Χ		Х			
18:00								X		X		BC	
	1	1	1	1				X		X			
	1							X		X			
	1	<u> </u>						X		X			
19:00	1				v			Λ		Λ		59	Pull cross arms out of spud piles.
- >	1	<u> </u>			X							.,	eress anns eut er spud pres.
					X						-		
					X			-					
20.00					X								
20:00					Х								
					Х								
					Х								
					Х								
21:00					Х								
					X								
					X								
					X								
22:00					X							59	Pull two level template out of cell
					X								1 ···· ·
					X						-		
23:00					X			-					
23:00	 				X								
	1			<u> </u>	Х								
	1	ļ		I	X								
					Х								
24:00					X								
					Х								
				Γ	X					Ι			
				Ī	X					Ī		59	Install single level template in cell.
01:00	1	1		1	X					1			
	1				X								
	1	<u> </u>			X								
	1	<u> </u>			Λ								
2:00	-				Х								
2.00				┣───									
02:30	1												



PAGE 3 13-SEPTEMBER-09

Orang	e Man	itowoc 2	2250		Idle colum	n X= idle	for other than	mechanic	cal M=idle fo	r mechai	nical reaso	ons. O = Mar	ine observers shut down Describe in notes.
Time	Driv	ing Tem		Work	in progr	ess				Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
15:30													
16:00													
						Χ				Χ		30	Extended curved tail wall
						Χ				Χ			
17:00						X			-	X			
17:00						X				X			
						X				X			
						X				X			
18:00						X				X			
10.00						X				X			
						X X				X X			
						X X				X X			
19:00						Λ X				X			l
				1		X			+	X			1
				М		Λ					X		Lay boom down
				101		X					X		
20:00						X					X		
						X					X		
						X				1	X		
								Х			X		
21:00								X			X		
								Х			Х		
								Х			Х		
								Х			Х		
22:00								Х			Х		
								Х			Х		
								Χ			Χ		
								Х			Х		
23:00								Χ			Χ		
								Χ			Χ		
								Χ			Χ		
24.00								Χ			Χ		
24:00						X				<u> </u>	X		
						X				<u> </u>	X		29 shoots post interve distance in
						X				<u> </u>	X		28 sheets past intermediate anchor.
01:00						X				<u> </u>	X		
01.00						X				-	X		
						X				-	X		1
						X				-	X		1
2:00						Χ					X		1
2.00											X		
02:30			I	I					I	I			I



PAGE 4 13-SEPTEMBER-09

Manito	owoc 41	100 (Ora	ange tip)	Idle o	olumn X	= idle for othe	than med	chanical M=ic	ile for m	echanical	reasons. O =	Marine observers shut down Describe in notes.
Time	Drivi	ng Tem	olate	Work	in progr					Wat		Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
15:30													
16:00									Х	Х		56	
									X	X			
									X	X			
									X	X			
17:00									X	X			
									X	X			
									X	X			
									X	X			
18:00									X	X			
									Х	Х			
	Ī								X	X			
									X	X		BB	
19:00	1					Х						52	Move crane to cell
						Х							Low tide restriction.
	1					X							
						X							
20:00						X							
				Х									
				Х									
				Х									
21:00				Х									
				Х									
				Х									
				Х									
22:00				Х									
				Х									
				Х									
				Х									
23:00				Х									
				Χ									
				Х									
				Х									
24:00				Χ									
				Х									
				X									
				X									
01:00				Х									
				Х									
				Х									
				Х									
2:00													
02:30													



PAGE 5 13-SEPTEMBER-09

Manito	owoc 41	100 (Bla	ck tip)		Idle col	umn X= i	dle for other th	an mecha	nical M=idle	for mee	hanical re	asons. O = M	farine observers shut down Describe in notes.
Time	Drivi	ng Tem	plate	Work	in progr					Wat		Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
15:30													
16:00													
								Х		Х		26	
								X		X			
								X		X			
17:00								X		л Х			
								A X		Λ Χ			
								A X		Λ Χ			
								X X		Λ			
18:00										X			
10.00								X		X			
								X		X			
								X		X			
10.00								X		X			
19:00								Х		Х			
								Χ		Χ			
								Χ		Χ		27	
								Х		Χ			
20:00								X		Χ			
								X		Х			
								X		Х			
					Х								
21:00					Х							15	Setup with man basket to weld survey
					X								targets
					X								
					X								
22:00					X X								
					X								
					X								
					A X								
23:00					X X								
20.00													
					X								
					X								
24.00					X							17	Install was to was here -
24:00					X							1/	Install wye to wye brace
					Х								
					Х								
					Х								
01:00					X X								
					Х								
					X X								
					Х								
2:00					X					1			
										Ī			
02:30	1												•



PAGE 6 13-SEPTEMBER-09

Manito	-						er than mechan	nical M=	idle for mecha				ervers shut down Describe in notes.
Time	Driv	ing Tem	plate	Work	in progi	ess				Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
15:30													
16:00								X					
								X					
								X					
17:00		-						X			-		
17.00								X					
								X					
								X					
								Χ					
18:00								Х					
								Х					
								Х					
								Х					
19:00	1							X		1			
	1	1		1		1	İ	X	1	1	1		
	1	1		М						l –	1		8 out of 12 bolts holding the clamp unit to
				M									the vibratory head have broken.
20:00													
20.00				M									
				M									
		-		Μ									
21.00				Μ									
21:00				Μ									
				Μ									
				Μ									
				Μ									
22:00				Μ									
				Μ									
				Μ									
	1			M				l		Ī			
23:00	1	1	1	M					1	1		1	
	1			M				1		1			
		1		M									1
	1	1	1	M					+				1
24:00		1											
27.00				M									l
	<u> </u>			M									l
				Μ									
	<u> </u>			Μ					ļ				
01:00	 	ļ		Μ						ļ			
				Μ									
				Μ									
				Μ									
2:00										1			
	1			1		1		1		Ī	1		
02:30	1				1				L		L	n	



PAGE 7 13-SEPTEMBER-09

Time	Drivi	ng Tem	nlata	Worl	in prog	-000				Wat	or?	Cell /	Notes:
Ime	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	Notes.
15:30	1 nes	Traine	Deek	Iuic	Staging	Stat	110 5440	VIDE	Tummer	m	out	rnes	
15.50													
16:00													
					X							39	Weld bubbler plates to top of sheets
					Х								
					Х								
17:00					X								
					X								
					X								
18:00					Х					37		39	Pull up on sheets
10.00								X		X		57	r un up on succis
								Χ	ļ	Х			
								Х		Х			
								Х		Х			
19:00								Х		Х		AJ	At wye
				Ī				X		X			
				İ				X	1	X			
								X		X			
20:00												-	
20.00								X		Х		-	
								Χ		Х			
								Х		Х			
					Х							AJ	Weld sheet to wye
21:00					Х								
					Х								
					X								
					X								
22:00					X								
22.00					Λ								
		-			X								
				<u> </u>	X								
					Х								
23:00					X								
					Х								
					X		· · · ·						
				Ī	X								
24:00				İ	X				1				
					X				<u> </u>				
				ł – –					<u> </u>				
					X								
01.00				<u> </u>	X								
01:00					X								
					X								
					Х								
					X								
2:00				İ	~ ~ ~				1				
	1			ł					<u> </u>				
02:30	<u> </u>	L		I				I	L				



PAGE 8 13-SEPTEMBER-09

White]	Lima 1	500 SC	Crane		<mark>Idl</mark>	<mark>e column</mark>	X= idle for ot	her than n	nechanical M	idle fo	r mechani	cal reasons. C) = Marine observers shut down Describe in
Time	Drivi	ng Tem	olate	Work	in progr	ess				Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
15:30												1 1100	Not in operation this shift.
													*
16:00													
10.00													
17:00													
18:00													
19:00													
20:00													
01.00													
21:00													
22:00													
23:00							<u> </u>						
24:00													
01:00	I										-		
2.00													
2:00													
2:30													





Figure 01



Figure 03



Figure 05



Figure 02



Figure 04



MKE	B Dail	y Equipment L	og		
In Use	Idle	Make	Description	Model	Id No.
X		Manitowoc	Lattice Boom Crane	4100W–black tip	
Х		Manitowoc	Lattice Boom Crane	4100W- orange tip	
X		Manitowoc	Lattice Boom Crane	4000	
X		Manitowoc	Lattice Boom Crane	2250 (blue)	
X		Manitowoc	Lattice Boom Crane	2250 (orange)	
X		Kobelco	Lattice Boom Crane	Yellow	
Х		APE	Vib Hammer W/power unit	200-6	
X		APE	Vib Hammer W/power unit	200-6	
	X	APE	Vib Hammer W/power unit	200	
	X	APE	Vib Hammer W/power unit	400	
Х		APE	Vib Hammer w/power unit	KING KONG	
Х		BSP/PACO	Impact Hammer	SL-30	
X		BSP/PACO	Impact Hammer	SL-30	
	X	APE	Impact Hammer	7.2 HIH	
Х		Grove	Man Basket	MZ 116C	
Х		Grove	Man Basket	MZ 90	
X		Genie	Man Basket	1073606	
	X	Whisperwatt	25KW Generator		982345
X		Ford	4 Door PU Truck		
X			Utility Bed Truck	2006 (half ton)	
X			Utility Bed Truck with welder	1997 ()	
X			Boat		AK6492L
X			Man Lift		
X		Volvo	Front End Loader	L180C	
		Volvo	Front End Loader	L150E	

QAP	P Dail	y Equipment L	og		
In Use	Idle	Make	Description	Model	Id No.
	х		Belly Dump Haul Truck	773B	2.72.022
	X		Belly Dump Haul Truck	773B	2.72.005
	X		Belly Dump Haul Truck	773B	2.72.015
	X		Belly Dump Haul Truck	773B	2.72.016
	X		Belly Dump Haul Truck	773B	2.72.004
	X		Belly Dump Haul Truck	773B	2.72.003
	x		End Dump Haul Truck	773D	2.72.018
	x		Belly Dump Haul Truck	773B	2.72.002
	x		End Dump Haul Truck	773B	2.72.021
	x		End Dump Haul Truck	773D	2.72.017
	x		Belly Dump Haul Truck	773D	2.72.023
	x		End Dump Haul Truck	773B	2.72.006
	x		Water Truck	K-1200	2.72.024
	х	Kenworth	Fuel Truck		AK EMP748
	x	Dodge	Repair Truck	2500	
	x		Flat Bed	INT1021	ENN 755
	X		Repair truck (NIC Mac)		Ak000812
	x	Volvo	Front end loader	L180F	
X		Volvo	Front End Loader	L220E	
	x	САТ	Front end loader	988G	
	x	САТ	Front end loader	992C	
	X	Ingersoll Rand	Roller		2.13.009
	X	САТ	Dozer	D-10N	2.51.005
	x	САТ	Dozer	D-10N	2.51.003
	x	Komatsu	Dozer	D61PX	
	x	САТ	Grader		2.40.013
	x	САТ	Grader		2-40-011
X		Komatsu	Excavator	PC1100LC	2.33.008
	x	Hitachi	Excavator	EX700	2.32.007
			Boat		



Tide	AM Hig	h	PM High 12:25 @ 26.2'	AM Low 6:30	@ 1.1' P	M Low	6:31 @ 8.5'
CONTRAC	CTOR:	МКВ	PROJECT MGR:	Andy Romine	SUPERINTEN	DENT:	Tom Glenn
CONTRAC	CTOR:	QAP	PROJECT MGR:	Tom Pitt	SUPERINTEN	DENT:	Steve Stichler
TEMPERA	TURE:	$48-53^{\circ}F \pm$	REVIEWED BY:		REVIEW	DATE:	
WEATHE	R:	Rain showers	REPORT ID.:	2009.10.010rkw		PAGE:	1 of 12
INSPECTO	DR:	Robert Wilson (RK)	W)		WORK O	RDER:	A32280

Report to: John Williams, Serenity Schmidt, Chris Locke, Corey Knowles (ICRC); Kai Vedenoja, Kurt Johnson (PND); Steve Schwicht (DOWL HKM)

MAJOR ACTIVITY: Day Shift (6:30 am to 4:30 pm)

- Blue 2250 Crane: Idle till 7:45 and then driving the intermediate anchor and a soldier pile for the extended tail wall 64/65. Setting extended tail wall template from 8:30 till 10:30 and then stabbing and driving piles for the rest of the shift.
- Orange 2250 Crane: Fresh heading at cells 10/11 until 9:15 when the visibility okay was given. They spent the rest of the shift removing sheets from cell 10 and 11
- 4100 (Orange tip) Crane: off shift till 8:00. Staging and sent the man basket to the face at cells 59-60 where a worker welded up the first sheet of the tail wall to the wye and the second sheet to the first one. This was completed at 3:30 and then they started driving sheets with an SL-30 impact hammer.
- 4100 (Black tip) Crane: Off shift till 8:00. First thing the crane was moved to cell 30/31 where it was used to drive sheets with an SL-30 hammer. The hammer broke down at 10:00 and the crane sat idle until it was repaired at about 2:30 and then drove sheets again for the rest of the day.
- 4000 Crane (set up for vibro-compaction): Broke down for 6.5 hours. Completed 3 holes today.
- Kobelco CK2500 Crane: worked on tail wall 38/39 stabbing and driving sheets for the entire shift. The sheets having been placed and removed once do not fit back together easily. The tail wall appears to be starting to develop a twist.
- White 1500 SC Crane: worked intermittently placing wye braces in cells. Idle approx 5 hours
- ADUS Welders: not working
- Denali Drilling: conducting SPT test in cell 19
- Swalling: not on site

Topics (when applicable)

Visitors to job:

Inspections performed:

Discussions with QAP, MKB, PND, or QA Services:

Earthwork performed: Backhoe removing material from inside the dry barge berth. Haul from pit with 4 trucks and backfilling on cells from 21 to 27.

Hindrances- MKB / QAP:

Whale info: Whale observers in place all shift. No shutdowns required.

- Stabbing etc allowed (after 350 meter visibility obtained) at 8:09 AM
- Impact in-water work allowed (1/2 hour after 800 meter visibility obtained) at 8:48 AM
- Vibratory in-water work allowed (1/2 hour after 1300 meter visibility obtained) at 8:51 AM

Force Account / change order tracking:

Personnel MKB: $26 \pm$

Personnel QAP: Steve, 2 grade checkers and 5 operators

Cells without bracing: 28, 29, 40, 41, 60, 61

Vibro-compaction probes completed this shift: Three holes

DOWL HKM

Sheet piles in place at beginning of shift

- Tail-Wall 9 /10 (I) is being removed.
- Tail-Wall 10 /11 (J) has 43 piles and the intermediate anchor in place (likely to be removed and re-set).
- Tail-Wall 11 /12 (K) has 43 piles and the intermediate anchor in place (likely to be removed and re-set).
- Tail-Wall 12 /13 (L) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 13/14 (M) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 14/15 (N) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 15/16 (O) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 16/17 (P) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 17/18 (Q) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 18/19 (R) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 19/20 (S) has all piles in place and tail wall piles driven to below pad grade. (from 10 sheets past IA to end to FG)
- Tail-Wall 20/21 (T) has all piles in place and tail wall piles driven to below pad grade. (from 11 sheets past IA to end to FG)
- Tail-Wall 21/22 (U) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 22/23 (V) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 23/24 (W) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 24/25 (X) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 25/26 (Y) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 26/27 (Z) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 27/28 (AA) has all piles in place and tail wall piles driven to final grade.
- Tail-Wall 28/29 (AB) has all piles in place and tail wall piles driven to final grade
- Tail-Wall 29/30 (AC) has all piles in place and tail wall piles driven to final grade
- Tail-Wall 30/31 (AC) has all piles in place and tail wall piles driven to final grade.
- Cell 32 has all piles in place and extended tail wall piles driven to final grade
- - Tail-Wall 37/38 (AI) has will be removed.
- Face 38 has been removed.
- Tail-Wall 38/39 (AJ) has is 8 piles in place from the Wye back. The rest have been removed
- Face 39 has been replaced
- Tail-Wall 39/40 (AK) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 40 /41 (AL) has all piles in place and tail wall piles driven to below pad grade.(end 38± sheets driven to final grade)
- Tail-Wall 41 /42 (AM) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 42 /43 (AN) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 43 /44 (AO) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 44/45 (AP) has all piles in place and tail wall piles driven to below pad grade. (end 36± sheets to final grade)
- Tail-Wall 45/46 (AQ) has all piles in place and extended tail wall piles driven to final grade)
- Tail-Wall 46/47 (AR) has all piles in place and tail wall piles driven to below pad grade. (end 20± sheets to final grade)
- Tail-Wall 47/48 (AS) has all piles in place and tail wall piles driven to below pad grade (IA + 2 to IA +25 to FG)
- Tail-Wall 48/49 (AT) has all piles in place and tail wall piles driven to below pad grade (end 20± sheets to final grade)
- Tail-Wall 49/50 (AU) has all piles in place and tail wall piles driven to below pad grade (end $20\pm$ sheets to final grade)
- Tail-Wall 50/51 (AV) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 51/52 (AW) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 52/53 (AX) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 53/54 (AY) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 54/55 (AZ) has all piles in place and tail wall piles driven to below pad grade. (IA+12 to end to final grade)
- Tail-Wall 55/56 (BA) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 56/57 (BB) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 57/58 (BC) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 58/59 (BD) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 59/60 (BE) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 60/61 (BF) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 61/62 (BG) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 62/63 (BH) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 63/64 (BI) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 64/65 (BH) has all piles in place to the intermediate anchor.
- •



PAGE 3 10-OCTOBER-09

	Manitowoc 2250 Idle column X= idle for other than mechanical M=idle for mechanical reasons. O = Marine of Driving Template Work in progress Water?												
Гime	Drivi	ng Tem			in progr	ess		-		Wat	er?		Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
7:00					Х								
					х								
					х								
								х			х	64/65	
8:00								х			х		Drive intermediate anchor and set soldi pile for extended tail wall.
				1				X	-		X		phe for extended tail wall.
					х							64/65	
					x								-
9:00					x								
					x								-
					x						ł – –		Work on extended template
					X								-
10:00					X								1
					X								-
					Λ	х						64/65	
												01,00	-
11:00						X							-
11.00						X					ł – – –		4
						X							Stab sheets of extended tail wall
						X							
12:00						X							4
12.00						X							-
						Х							-
						X							-
12.00						Х							
13:00				Х									Lunch
				Х								64/67	
						Х						64/65	4
						Х							4
14:00						Х							
						Х							Stab extended tail wall (completed)
						Х							_
						Х							
15:00						Х							
								Х		х		64/65	1
								х		х			1
								х		х			
16:00								Х		х			Drive sheets with ape 200-6
								Х		х			
								Х		х			
								х		х]



PAGE 4 10-OCTOBER-09

Orang							for other than						
Time	Drivi	ng Tem	olate	Work	in progr	ess	111 0.1	3.7*1		Wat		Cell /	Notes:
7.00	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
7:00					х								Holding hammer waiting for visibility
					Х								Holding nammer waiting for visionity
	-				х								
					X								
8:00					Х								
					X								Workers in man basket fresh heading
					Х								
					Х								_
9:00					Х								
								Х		Х		10/11	_
								х		Х			
								Х		х			1
10:00								Х		Х			1
								Х		Х			1
								Х		х			
								х		Х			
11:00								х		х			
								х		х			
								Х		х			
								х		х			
12:00								х		х			
								х		х			
								х		х			
								Х		Х			
13:00								Х		х			Removing sheets of cells 10 and 11
								Х		Х			
								Х		Х			
								Х		Х			1
14:00								х		Х			1
	Î.			Ī				х		х			
	1			Ī				х		х			1
	1			Ī				х		х			1
15:00	1			Ī				х		х			1
	1			1		1		х		х			1
	1			1		1		х		х			1
	1			1		1		х		х			1
16:00								X		X			
	1			t –				x		X			1
	1			1				x		X			
	1			1				x		X			1
17:00	1		l	I	1	1	l		l	I	I		



PAGE 5 10-OCTOBER-09

Manito	owoc 4	100 (Ora	ange tij))	Idle of	column X	= idle for other	r than med	hanical M=io	lle for n	nechanical	reasons. O =	Marine observers shut down Describe in notes.
Time	Drivi	ng Tem	plate	Work	in progr	ess				Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
7:00				Х									
				х									Shift starts at 8:00
				х									
				х									
8:00					Х							59/60	
					Х								
					Х								
					х								
9:00					Х								
					Х								
					Х								
					Х								
10:00					Х								
					Х								
					Х								
					Х								Workers in man basket welding first tail wall sheet to wye
11:00					Х								wall sheet to wye
					Х								-
					Х								
					х								
12:00					х								
					Х								
					Х								
					Х								
13:00					Х								
					Х								
					Х								
					Х								
14:00				Х									Lunch
				х									
					х							59/60	
					Х								
15:00					х								Still welding
					х								
					х								
									Х	х			1
16:00									Х	х			Driving sheets withSL-30 hammer
									Х	х			
									Х	х			
									Х	х			
17:00													



PAGE 6 10-OCTOBER-09

farine observers shut down Describe in notes.	reasons. $O = I$	chanical r	e for me	anical M=id	than mech	idle for other	$\lambda = \frac{1}{2} \sum_{i=1}^{n} $	iule co		ick up)			Manito
Notes:	Cell /	er?	Wat				ess	in progr	Work	olate	ng Tem	Drivi	Time
	Piles	out	in	Hammer	Vibe	Vib-Stab	Stab	Staging	Idle	Deck	Frame	Piles	
									Х				7:00
Shift starts at 8:00									Х				
									Х				
									Х				
								Х					8:00
Move crane to cell 30/31								Х					
								Х					
								Х					
	29/30		х	Х									9:00
Drive sheets with SL-30 hammer			х	Х									
			х	Х									
			х	Х									
									Х				10:00
									Х				
									Х				
									Х				
									Х				11:00
									Х				
									Х				
									Х				
Hammer broke down working on hamme									Х				12:00
Hammer broke down working on hamme									Х				
									Х				
									Х				
									Х				13:00
									Х				
									Х				
									X				
									X				14:00
									X				
	29-30		X	Х									
			X	X									
			x	x									15:00
			x	X									
Driving toil wall or different sets			X	X									
Driving tail wall and face sheets again			X	X									
			X	X									16:00
_			X	x									
			х	X									
			X X	X X									
			Λ	Λ								I	17:00



PAGE 7 10-OCTOBER-09

Manito							or other than m	echanical	M=1dle for m				observers shut down Describe in notes.
Time	Drivi	ing Tem	plate	Work	in progr	ess		* ***		Wat		Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
7:00								х			х		Vibratory compaction
								х			х		
								х			х		
								х			х		
8:00								х			х		
								Х			Х		
								х			х		
								х			х		
9:00								х			х		
				х									
				x									1
	1			x									1
10:00				X									1
				X									
				X									
				X									
11:00				х									
11100													-
				X									
				Х									
12:00				Х									
12.00				х									
				х				-					Broke down
				х									bioke down
12.00				Х									
13:00				Х									
				Х									
				Х									
				Х									
14:00				Х									1
				Х									1
				Х									
				х									
15:00				Х]
				х]
				Х]
	1			х									1
16:00	Ī							х			х		
	1		1					X			X		Vibratory compaction just outside tail o
	1				L			x			X		cell 14
	1							X			X		1
17:00		1	I				1	**			**		



Yellow	Kobe	lco 2500)	I	dle column	X= idle f	or other than m	nechanical	M=idle for n	nechanic	al reasons	s. O = Marine	e observers shut down Describe in notes.
Time	Drivi	ng Tem	plate	Work	in progr	ess				Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
7:00					х							38/39	
					х								staging
					х								
						х						38/39	
8:00						х							
						Х							
						х							
						Х							
9:00						Х							
						Х							
	1					х							Stabbing tail wall sheets starting with # 9
	Ī					х							
10:00	Ī					х							Going slow because used sheets are hard to stab.
						х							
						Х							
						Х							
11:00						Х							1
						Х							
						Х							
						х							
12:00						Х							
								Х		х		38/39	
								Х		х			Driving with ape 200-6 vibratory hammer.
								Х		х			
13:00				Х									lunch
				Х									Tunion
								х		х			
								х		х			1
14:00								х		х			1
								х		х			1
	1							х		х			1
	1							х		х			1
15:00								х		х			Driving again
	1							х		х			2
	1							х		х			1
	1							х		х			1
16:00	1							х		х			1
	Î.							х		х			
	Î.							х		х			
				1				х		х			1
17:00	1	•				•	•	•	•	-			•



PAGE 9 10-OCTOBER-09

		C Cran				Marine observers shut down Describe in notes.							
Time	Drivi	ng Tem	plate	Work	in progr	ess				Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
7:00				х									
				х									Shift starts at 8:00
				х									Shift starts at 0.00
				х									
8:00					х								
					х								Hook up man basket and a wye brace and sit waiting.
					х								sit watting.
				х									
9:00				X									
				x									
				X									
				x									
10:00				x									Idle waiting
				x									1
				x									
				x									
11:00				x									
				x									
				л	x								
					x								Holding man basket for Terracon while they work on instrumentation
12:00					x								
					X								
				х	л								
				X									
13:00				X									-
10.00				X									Idle
				X									-
14:00				х	v						-		
11.00					X X								1
													1
					X								1
15:00					X								1
15.00					X								Holding man basket while wye brace is
					X								Holding man basket while wye brace is being placed at cell 46
					X								
16:00					х								
10:00					Х								
					х								
					Х								
17:00					Х								



PAGE 10 10-OCTOBER-09



Figure 01



Figure 02



Figure 03



Figure 05



Figure 04



MKE	B Dail	y Equipment L	og		
In Use	Idle	Make	Description	Model	Id No.
Х		Manitowoc	Lattice Boom Crane	4100W–black tip	
Х		Manitowoc	Lattice Boom Crane	4100W- orange tip	
Х		Manitowoc	Lattice Boom Crane	4000	
Х		Manitowoc	Lattice Boom Crane	2250 (blue)	
Х		Manitowoc	Lattice Boom Crane	2250 (orange)	
Х		Kobelco	Lattice Boom Crane	Yellow	
Х		Lima	1500 SC Crane	White	
Х		APE	Vib Hammer W/power unit	200-6	
Х		APE	Vib Hammer W/power unit	200-6	
	Х	APE	Vib Hammer W/power unit	200	
	Х	APE	Vib Hammer W/power unit	400	
	Х	APE	Vib Hammer w/power unit	KING KONG	
Х		BSP/PACO	Impact Hammer	SL-30	
Х		BSP/PACO	Impact Hammer	SL-30	
	Х	APE	Impact Hammer	7.2 HIH	
	Х	Grove	Man Basket	MZ 116C	
	Х	Grove	Man Basket	MZ 90	
Х		Genie	Man Basket	1073606	
		Whisperwatt	25KW Generator		982345
Х		Ford	4 Door PU Truck		
			Utility Bed Truck	2006 (half ton)	
			Utility Bed Truck with welder	1997 ()	
	Х		Boat		AK6492L
Х			Man Lift		
Х		Volvo	Front End Loader	L180C	
Х		Volvo	Front End Loader	L150E	

In	Idle	Make	Description	Model	Id No.
Use			1		
	X		Belly Dump Haul Truck	773B	2.72.022
	X		Belly Dump Haul Truck	773B	2.72.005
	X		Belly Dump Haul Truck	773B	2.72.015
	X		Belly Dump Haul Truck	773B	2.72.016
	X		Belly Dump Haul Truck	773B	2.72.004
2			Belly Dump Haul Truck	773B	2.72.003
2			End Dump Haul Truck	773D	2.72.018
	X		Belly Dump Haul Truck	773B	2.72.002
	X		End Dump Haul Truck	773B	2.72.021
	X		End Dump Haul Truck	773D	2.72.017
	X		End Dump Haul Truck	773D	2.72.023
	X		End Dump Haul Truck	773B	2.72.006
Х			Water Truck	K-1200	2.72.024
Х	x	Kenworth	Fuel Truck		AK EMP748
		Dodge	Repair Truck	2500	
Х			Flat Bed	INT1021	ENN 755
			Repair truck (NIC Mac)		Ak000812
	X	Volvo	Front end loader	L180F	
Х		Volvo	Front End Loader	L220E	
Х		САТ	Front end loader	988G	
	X	CAT	Front end loader	992C	
Х		Ingersoll Rand	Roller		2.13.009
Х		CAT	Dozer	D-10N	2.51.005
	X	CAT	Dozer	D-10N	2.51.003
Х		Komatsu	Dozer	D61PX	
	X	CAT	Grader		2.40.013
	X	CAT	Grader		2-40-011
	X	Komatsu	Excavator	PC1100LC	2.33.008
Х	1	Hitachi	Excavator	EX700	2.32.007
	Х		Boat		



INSPECTO	DR:	David Frary (DF)			WORK	ORDER:	A32280
WEATHER	R:	Mostly cloudy	REPORT ID.:	2009.10.25df		PAGE:	1 of 13
TEMPERA	TURE:	31-40F ±	REVIEWED BY:		REVIE	W DATE:	
CONTRAC	CTOR:	QAP	PROJECT MGR:	Tom Pitt	SUPERINTE	ENDENT:	Steve Stichler
CONTRAC	CTOR:	MKB	PROJECT MGR:	Andy Romine	SUPERINTE	ENDENT:	Tom Glenn
Tide	AM Hig	h	PM High 1:04 @ 25.3'	AM Low 6:47	@ 3.6'	PM Low	6:58 @ 10.3'

Report to: John Williams, Serenity Schmidt, Chris Locke, Corey Knowles (ICRC); Kai Vedenoja, Kurt Johnson (PND); Steve Schwicht (DOWL HKM)

MAJOR ACTIVITY: Day Shift (7:30 am to 6:00 pm)

- Blue 2250 Crane: Working on stabbing and driving sheets on 66 tail wall until 12:30 then worked on pulling template out of cell 65 until about 4:45pm then crane was idle.
- Orange 2250 Crane: After visibility obtained, driving on 11/12 tail wall and face of 12 using 200-6 vibe until 12:30pm then working on moving and installing template in cell 11until 6:00pm.
- 4100 (Orange tip) Crane: After visibility obtained, driving on face of cell 64 and tail wall of 64/65 until shutting down at about 4:45pm
- 4100 (Black tip) Crane: After visibility obtained, driving on face of 31 and 32 along with 30/31 tail wall until about 2:15pm. Hammer removed, basket attached and then cutting off tops of sheets near 31/32 wye. Finish at 5:30pm and go home.
- Kobelco CK2500 Crane: Driving on tail wall of cells 38/39 until 9:45 then move crane and equipment and work on template in cell 38 until done at 7:15pm.
- White 1500 SC Crane: Sat idle until most of day except from 10:30 until 11:15 and 3:15 until 6:30 when Terracon was working on electronics in cell 61.
- Denali Drilling: Not on site

Topics (when applicable)

Visitors to job:

Inspections performed:

Discussions with QAP, MKB, PND, or QA Services:

Earthwork performed: Hauling from pit with 4 trucks. Backfilling tail wall 38/39 from existing stock pile on site. Digging trench for conduit by 57/58 tail wall. Back filling some of cell 57.

Hindrances- MKB / QAP:

Whale info: Whale observers in place all shift. No shutdowns required.

- Stabbing etc allowed (after 350 meter visibility obtained) at 8:46am
- Impact in-water work allowed (1/2 hour after 800 meter visibility obtained) at 8:52am
- Vibratory in-water work allowed (1/2 hour after 1300 meter visibility obtained) at 8:59am

Force Account / change order tracking:

Personnel MKB: 26 ±

Personnel QAP: Steve, 2 grade checkers and 5 operators

Cells without bracing: 28, 29, 40, 41, 60, 61

Vibro-compaction probes completed this shift: -none-

DOWL HKM

P.O.A. EXPANSION PROJECT INSPECTION REPORT Day Shift

Sheet piles in place at beginning of shift

- Tail-Wall 11 /12 (K) has all piles in place, the extended tail wall is to grade 42±.
- Tail-Wall 12 /13 (L) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 13/14 (M) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 14/15 (N) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 15/16 (O) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 16/17 (P) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 17/18 (Q) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 18/19 (R) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 19/20 (S) has all piles in place and tail wall piles driven to below pad grade. (from 10 sheets past IA to end to FG)
- Tail-Wall 20/21 (T) has all piles in place and tail wall piles driven to below pad grade. (from 11 sheets past IA to end to FG)
- Tail-Wall 21/22 (U) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 22/23 (V) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 23/24 (W) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 24/25 (X) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 25/26 (Y) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 26/27 (Z) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 27/28 (AA) has all piles in place and tail wall piles driven to final grade.
- Tail-Wall 28/29 (AB) has all piles in place and tail wall piles driven to final grade
- Tail-Wall 29/30 (AC) has all piles in place and tail wall piles driven to final grade
- Tail-Wall 30/31 (AC) has all piles in place and tail wall piles driven to final grade.
- Cell 32 has all piles in place and extended tail wall piles driven to just above gravel pad grade
- - Tail-Wall 38/39 (AJ) has is 47 sheets in place past the intermediate anchor.
- Tail-Wall 39/40 (AK) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 40 /41 (AL) has all piles in place and tail wall piles driven to below pad grade.(end 38± sheets driven to final grade)
- Tail-Wall 41 /42 (AM) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 42 /43 (AN) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 43 /44 (AO) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 44/45 (AP) has all piles in place and tail wall piles driven to below pad grade. (end $36\pm$ sheets to final grade)
- Tail-Wall 45/46 (AQ) has all piles in place and extended tail wall piles driven to final grade)
- Tail-Wall 46/47 (AR) has all piles in place and tail wall piles driven to below pad grade. (end 20± sheets to final grade)
- Tail-Wall 47/48 (AS) has all piles in place and tail wall piles driven to below pad grade (IA + 2 to IA +25 to FG)
- Tail-Wall 48/49 (AT) has all piles in place and tail wall piles driven to below pad grade (end 20± sheets to final grade)
- Tail-Wall 49/50 (AU) has all piles in place and tail wall piles driven to below pad grade (end $20\pm$ sheets to final grade)
- Tail-Wall 50/51 (AV) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 51/52 (AW) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 52/53 (AX) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 53/54 (AY) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 54/55 (AZ) has all piles in place and tail wall piles driven to below pad grade. (IA+12 to end to final grade)
- Tail-Wall 55/56 (BA) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 56/57 (BB) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 57/58 (BC) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 58/59 (BD) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 59/60 (BE) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 60/61 (BF) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 61/62 (BG) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 62/63 (BH) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 63/64 (BI) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 64/65 (BH) has all piles in place and extended tail wall piles driven to final grade.



PAGE 3 25-OCTOBER-09

'ime	Drivi	ng Tem	plate	Work	in progr	ess				Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
7:30				Х									
				X									Waiting for visibility
8:00	1			X								-	
	1			A		Х					Х	66	
						X					X		Tail wall on cell 66
						X					X		
9:00					Х	Λ					A		Attaching 200-6 vibe
				v	Λ								
				X				X			X	66	
								X					Driving tail wall sheets
10:00						v		Λ			X X	66	
						X							
					l	X					X		Stabbing sheets
						X					X		
11:00					v	X					Х		Attaching vibe
					Х			v			v	66	
								X			X		
								X			X		Driving sheets
12:00								X			X		
12.00								X			X		
								Х			Х		Remove vibe
					X							65	Attach basket, cut welds
13:00	-				Х							05	Attach basket, cut welds
15.00					X								
					Х								Removing template
					Х								
14:00					Х							65	
14.00					Х							05	
				Х									Lunch
				X									
15:00				X									Idle
15.00				X								65	
					X							05	
					Х								
16:00					Х								Pulling template and soldier piles
10:00					X								
	<u> </u>				X								
	<u> </u>				Х								
17.00				Х									
17:00				Х									Idle until 7:30pm
	<u> </u>			Х									
	I			Х									
		ght shift to		Х									



PAGE 4 25-OCTOBER-09

Orang	Duini		-1-+-	West	Idle colum					Wet	a9	Call /	Nataa
Time	Piles	ng Tem Frame	Deck	WORK	in progr	ess Stob	Vib-Stab	Vibo	Hommon	Wat		Cell /	Notes:
	Piles	Frame	Деск	Idle	Staging	Stab	vid-Stab	Vibe	Hammer	in	out	Piles	
7:30				Х									Idle
				Х									
8:00					Х								Moving crane to11/12
					Х								
				х									Boom down
					Х								Attaching 200-6 vibe
9:00								Х			Х	11/12	
								X			X		Driving sheets on tail wall
								X			X		
								X		х		12	
10:00	1							X		X			
								X		X			
	1							X		X			
								X		X			
11:00								X		X			Driving on face of cell 12
								X		X			
								X		X			
12:00								X		X			
12.00								X		X			
								Х		Х		12	
					Х							12	
13:00					Х								
15.00					Х								Staging soldier pile
					Х								
	-				X								
14:00	-				Х							11	
14.00	-							X		Х		11	
								Х		Х			Driving soldier pile
								Х		Х			
15.00								X		Х			
15:00				Х									Lunch
				X									
					Х							11	
	<u> </u>				Х								
16:00					Х								
					Х								
					Х								Working on template, installing walkwa
					Х								-
17:00					Х								
					Х								
					Х								
					X								



PAGE 5 25-OCTOBER-09

lime	Driv	ing Tem	nlate	Work	in progr	ess					er?	Cell /	Notes:
mie	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	10003.
7:30	T Hes	Trume	Deek		Buging	Diao	vie blue	1100	Traininer		out	rnes	
7.30				Х									
				Х									
8:00				х									
				х									
				X									
				Λ	х								
9:00													Move crane attach hammer
2100					Х							64	
									Х	Х		04	
									Х	Х			
									Х	Х			
10:00									Х	Х			Driving on face with SL-30 hammer
									Х	х			C
									Х	Х			
									X	X			
11:00									X	X			
													At wye of 64/65
									Х	Х		64	
									Х	Х		04	
									Х	Χ			
12:00									Х	Х			
									Х	Х			Driving on face of 64
									Х	х			C C
									Х	Х			
13:00									X	X			
										X			
									X	Λ			
				Х									Lunch
14.00				Х									201101
14:00				Х									
									Х	Х		64	
									Х	Х			
									Х	Х			Driving on face of cell 64
15:00									X	X			Diffing on face of cen 04
		1		1					X	X			
		1		1						X X			
									X	Λ		64/65	
16:00									Х	Х		0,00	
10:00									Х	Х			Driving on tail wall near wye
									Х	Х			
									X	Х			
				Х									
17:00				X									
		1	1	X		1							Down rest of day
	1			Х				-					
8:00		ght shift to	L	Х									



PAGE 6 25-OCTOBER-09

Гime	Drivi	ng Tem	plate	Work	in progr	ess				Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
7:30					0.0							1 1105	
				Х									-
8:00				X								-	Waiting on visibility
8.00				Х	-								
				Х									-
				Х									
					Х							31	Attaching and moving SL-30 hammer
9:00								х		х		31	
								Х		Х			1
								X		X			1
								X		X			1
10:00													1
		<u> </u>						X		X			1
								Х		Х			Driving on face with SL-30 hammer
								Х		Х			4
								Х		Х			
11:00								X		Х			
								Х		Х			
								Х		х			
								Х		Х			1
12:00								X		X		30/31	
													Driving on tail wall
								X		X			1
	-			-				Х		Х		32	
13:00								Х		Х		52	Driving on face of cell 32
15:00								Х		Х			
								Х		Х			
				Х									Lunch
				Х									
14:00								Х		х		32	Driving on face
					Х							32	
					X								
					X								Bring in hammer, attach basket, cuttin tops off sheets near wye
15:00	-												tops on sheets hear wye
					X								4
					X								
				Х									4
				X									-
16:00				X									
				Х									1
				Х									Shut down rest of day
				X									
17:00	1			X									1
	1												1
				X									1
				X X									4



ime	ne Driving Template V				in progr	ess				Wat	er?	Cell /	Notes:
mic	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	Notes.
7:30				х	0.0							T Hes	
					Х								Attaching 200-6 vibe
8:00					Λ				v		v	38/39	
									X		X		
									X		X		
									X		X		Driving on intermediate tail wall and anchor
9:00									X		X		ancnor
,									X		X		
									X		X		
									Х		Х		
10:00					X								Remove vibe, move equipment
10.00					X								
					Х								
				X									Idle
11:00				X									
11.00				Х								38	
					X							50	
					Х								
12:00					Х								Welding on soldier pile to be moved,
12.00					Х								reposition and drive in.
					Х							38	-
					Х							30	
13:00					Х								
13.00					Х								
				Х									Lunch
				Х								38	
14:00								X		Х		38	Driving soldier pile
14.00								X		Х		38	
					Х							38	
					Х								
15:00					Х								
15:00					Х								
					Х								
					Х								
16:00					Х							38	Working on installing template and
10:00					Х							38	template walkway
					Х								4
					Х								4
17.00					Х								4
17:00	<u> </u>			<u> </u>	Х					<u> </u>			4
					Х								4
					Х								1
	1				X ell 38 until					I			



PAGE 8 25-OCTOBER-09

Time	Drivi	ng Tom	alata	Work	in progr	000				Wet	Water? Cell		Notes:
1 me	Drivi Piles	ng Tem Frame	Deck	Idle	in progr Staging	ess Stab	Vib-Stab	Vibe	Hammer	in wat	er ? out	Piles	notes:
7:30	Tiles	Traine	Deek		Staging	Stab	v10-5tab	VIDE	Tammer	m	out	Piles	
7.30				Х									
0.00				Х									
8:00				X									
				X									
				Х									
				Х									Idle
9:00				Х									
				X									
				X									
				х									
10:00				Х									
				Х									
					Х								Attaching basket
				Х									
11:00				Х									
				X									
				X									
				X									
12:00													
				X									
				X									
				X X									
13:00													Idle
				X									
				X									
				X									
14:00				Х									
14.00				Х									
				Х									
	-			Х									
15.00	<u> </u>			Х									4
15:00	 			Х								(1	
	 				Х							61	4
	<u> </u>			<u> </u>	Х					<u> </u>			4
	<u> </u>				X								4
16:00	 				X								1
	<u> </u>				Х								1 1 1 1 1 1 1 1
					Х								Terracon working on electronics in cell 6
					X]
17:00					Х]
					Х								
					X]
					X								



PAGE 9 25-OCTOBER-09



Figure 01



Figure 03



Figure 05



Figure 02



Figure 04





PAGE 10 25-OCTOBER-09



Figure 07





Figure 10



Figure 11



Figure 09







Figure 13



Figure 14



Figure 15



Figure 17



Figure 16



In Use	Idle	Make	Description	Model	Id No.
X		Manitowoc	Lattice Boom Crane	4100W–black tip	
Х		Manitowoc	Lattice Boom Crane	4100W- orange tip	
	Х	Manitowoc	Lattice Boom Crane	4000	
Х		Manitowoc	Lattice Boom Crane	2250 (blue)	
Х		Manitowoc	Lattice Boom Crane	2250 (orange)	
Х		Kobelco	Lattice Boom Crane	Yellow	
Х		Lima	1500 SC Crane	White	
Х		APE	Vib Hammer W/power unit	200-6	
Х		APE	Vib Hammer W/power unit	200-6	
	Х	APE	Vib Hammer W/power unit	200	
	Х	APE	Vib Hammer W/power unit	400	
	Х	APE	Vib Hammer w/power unit	KING KONG	
Х		BSP/PACO	Impact Hammer	SL-30	
X		BSP/PACO	Impact Hammer	SL-30	
	Х	APE	Impact Hammer	7.2 HIH	
	Х	Grove	Man Basket	MZ 116C	
	Х	Grove	Man Basket	MZ 90	
Х		Genie	Man Basket	1073606	
		Whisperwatt	25KW Generator		982345
Х		Ford	4 Door PU Truck		
			Utility Bed Truck	2006 (half ton)	
			Utility Bed Truck with welder	1997 ()	
	Х		Boat		AK6492L
Х			Man Lift		
Х		Volvo	Front End Loader	L180C	
Х		Volvo	Front End Loader	L150E	

In	Idle	Make	Description	Model	Id No.
Use					
	X		Belly Dump Haul Truck	773B	2.72.022
	X		Belly Dump Haul Truck	773B	2.72.005
	X		Belly Dump Haul Truck	773B	2.72.015
	X		Belly Dump Haul Truck	773B	2.72.016
	X		Belly Dump Haul Truck	773B	2.72.004
	X		Belly Dump Haul Truck	773B	2.72.003
	X		End Dump Haul Truck	773D	2.72.018
	X		Belly Dump Haul Truck	773B	2.72.002
	X		End Dump Haul Truck	773B	2.72.021
	X		End Dump Haul Truck	773D	2.72.017
	X		End Dump Haul Truck	773D	2.72.023
	X		End Dump Haul Truck	773B	2.72.006
Х			Water Truck	K-1200	2.72.024
Х	X	Kenworth	Fuel Truck		AK EMP748
		Dodge	Repair Truck	2500	
Х			Flat Bed	INT1021	ENN 755
			Repair truck (NIC Mac)		Ak000812
	X	Volvo	Front end loader	L180F	
Х		Volvo	Front End Loader	L220E	
Х		CAT	Front end loader	988G	
	X	САТ	Front end loader	992C	
Х		Ingersoll Rand	Roller		2.13.009
Х		CAT	Dozer	D-10N	2.51.005
	X	CAT	Dozer	D-10N	2.51.003
Х		Komatsu	Dozer	D61PX	
	X	CAT	Grader		2.40.013
	X	CAT	Grader		2-40-011
	X	Komatsu	Excavator	PC1100LC	2.33.008
Х		Hitachi	Excavator	EX700	2.32.007
	Х		Boat		



INSPECTO	DR:	David Frary (DF)			WORK	ORDER:	A32280
WEATHER	R:	Mostly sunny	REPORT ID.:	2009.11.01DF		PAGE:	1 of 13
TEMPERA	TURE:	$23\text{-}38^\circ F \pm$	REVIEWED BY:		REVIEW	V DATE:	
CONTRAC	CTOR:	QAP	PROJECT MGR:	Tom Pitt	SUPERINTE	NDENT:	Steve Stichler
CONTRAC	CTOR:	MKB	PROJECT MGR:	Andy Romine	SUPERINTE	NDENT:	Tom Glenn
Tide	AM Hig	h 6:08 @ 28.5'	PM High 6:03 @ 30.5'	AM Low 1:21	@ -0.1'	PM Low	12:33 @ 4.3'

Report to: John Williams, Serenity Schmidt, Chris Locke, Corey Knowles (ICRC); Kai Vedenoja, Kurt Johnson (PND); Steve Schwicht (DOWL HKM)

MAJOR ACTIVITY: Day Shift (7:30 am to 6:00 pm)

- Blue 2250 Crane: Worked on cell 65 and 66 all day driving in 66 tail wall and face of 65 using 200-6 vibe. When not driving they were removing the template from 66.
- Orange 2250 Crane: After visibility was achieved and crane was moved into position, they worked on driving 37/38 tail wall most of the day except between 11:00 and 12:45 when they had to stop to repair the vibe hammer because of a leaking hose.
- 4100 (Orange tip) Crane: Crane idle until 9:45 visibility start up then driving on tail wall of 32 until 1:00. After moving crane, continued to drive with SL-30 hammer on face of 32 and 31/32 tail wall until visibility shut down at 5:30pm
- 4100 (Black tip) Crane: Moving crane until position near cells 10/11 and used the 200-6 vibe to drive on tail wall until 10:00 then stabbing sheets in tail wall and intermittently driving until 5:00pm
- Kobelco CK2500 Crane: Crane down
- White 1500 SC Crane: Crane was idle most of the day except between 11:15 and 2:00 when crew had basket attached and was working on electronics on outside of cells 18/19.
- Denali Drilling: not on site

Topics (when applicable)

Visitors to job: Kirt Johnson and Chris Locke

Inspections performed:

Discussions with QAP, MKB, PND, or QA Services: Was informed by MKB that night shift has been shut down.

Earthwork performed: QAP grading areas between cells 42 and 58 and between 12 and 29 on roadway. Also worked on grading near cells 35-38 at dry barge berth.

Hindrances- MKB / QAP:

Whale info: Whale observers in place all shift. No shutdowns required.

- Stabbing etc allowed (after 350 meter visibility obtained) at 8:15am Shut down occurring at 5:15pm
- Impact in-water work allowed (1/2 hour after 800 meter visibility obtained) at 9:32am Shut down at 5:20pm
- Vibratory in-water work allowed (1/2 hour after 1300 meter visibility obtained) at 11:16am Shut down at 5:29pm

Force Account / change order tracking:

Personnel MKB: 26 ±

Personnel QAP: Steve, 2 grade checkers and 5 operators

Cells without bracing: 30, 40, 63

Vibro-compaction probes completed this shift: -none-

DOWL HKM

Sheet piles in place at beginning of shift

- Tail-Wall 10 /11 (J) has 2 piles in place,
- Tail-Wall 11 /12 (K) has all piles in place, the extended tail wall is to finish grade.
- Tail-Wall 12 /13 (L) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 13/14 (M) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 14/15 (N) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 15/16 (O) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 16/17 (P) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 17/18 (Q) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 18/19 (R) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 19/20 (S) has all piles in place and tail wall piles driven to below pad grade. (from 10 sheets past IA to end to FG)
- Tail-Wall 20/21 (T) has all piles in place and tail wall piles driven to below pad grade. (from 11 sheets past IA to end to FG)
- Tail-Wall 21/22 (U) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 22/23 (V) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 23/24 (W) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 24/25 (X) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 25/26 (Y) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 26/27 (Z) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 27/28 (AA) has all piles in place and tail wall piles driven to final grade.
- Tail-Wall 28/29 (AB) has all piles in place and tail wall piles driven to final grade
- Tail-Wall 29/30 (AC) has all piles in place and tail wall piles driven to final grade
- Tail-Wall 30/31 (AC) has all piles in place and tail wall piles driven to final grade.
- Cell 32 has all piles in place and extended tail wall piles driven to just above gravel pad grade

•

- Tail Wall 37/38 (AI) has 2 sheets in place
- Tail-Wall 38/39 (AJ) has all sheets in place; the extended tail wall is driven to final grade
- Tail-Wall 39/40 (AK) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 40 /41 (AL) has all piles in place and tail wall piles driven to below pad grade.(end 38± sheets driven to final grade)
- Tail-Wall 41 /42 (AM) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 42 /43 (AN) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 43 /44 (AO) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 44/45 (AP) has all piles in place and tail wall piles driven to below pad grade. (end 36± sheets to final grade)
- Tail-Wall 45/46 (AQ) has all piles in place and extended tail wall piles driven to final grade)
- Tail-Wall 46/47 (AR) has all piles in place and tail wall piles driven to below pad grade. (end 20± sheets to final grade)
- Tail-Wall 47/48 (AS) has all piles in place and tail wall piles driven to below pad grade (IA + 2 to IA +25 to FG)
- Tail-Wall 48/49 (AT) has all piles in place and tail wall piles driven to below pad grade (end 20± sheets to final grade)
- Tail-Wall 49/50 (AU) has all piles in place and tail wall piles driven to below pad grade (end $20\pm$ sheets to final grade)
- Tail-Wall 50/51 (AV) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 51/52 (AW) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 52/53 (AX) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 53/54 (AY) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 54/55 (AZ) has all piles in place and tail wall piles driven to below pad grade. (IA+12 to end to final grade)
- Tail-Wall 55/56 (BA) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 56/57 (BB) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 57/58 (BC) has all piles in place and tail wall piles driven to below pad grade.
- Tail-Wall 58/59 (BD) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 59/60 (BE) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 60/61 (BF) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 61/62 (BG) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 62/63 (BH) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 63/64 (BI) has all piles in place and extended tail wall piles driven to final grade.
- Tail-Wall 64/65 (BH) has all piles in place and extended tail wall piles driven to final grade.
- Cell 66 has 13 sheets in place past the intermediate anchor



PAGE 3 1-NOVEMBER-09

Time	Drivi	ng Tem	olate	Work	in progr	ess				Wat	er?	Cell /	Notes:	
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles		
7:30				Х									Idle	
				X										
8:00					Х							66	Moving equipment	
					X								into this equipment	
					X								Attach basket	
					X									
9:00					Х								Removing template from cell 66	
					Х									
					Х									
					Х									
10:00								Х		Х		65/66		
								Х		Х			Driving on tail wall using 200-6 vibe	
								Х		Х				
								Х		Х				
11:00								Х		Х		65	Driving on face	
								Х		Х			_	
					Х									
					Х									
12:00					Х								Removing template parts	
					Х									
					Х									
12.00								Х			Х	66	-	
13:00								Х			Х		_	
								Х			Х		Driving again	
								Х			Х		-	
14.00								Х			Х		-	
14:00								Х			Х			
				Х									lunch	
				Х										
15:00				Х										
15.00					Х							66	-	
								X		Х		00	-	
								Х		Х			-	
16:00								X		X			Driving on tail wall again	
10.00								Х		Х				
								X		X			_	
								X		X			4	
17:00								X		X			4	
17.00								X		Х				
					X								Attach basket and remove more template	
					X X					<u> </u>			parts	



PAGE 4 1-NOVEMBER-09

Time	Drivi	ng Tem	olate	Work	in progr	ess				Wat	er?	Cell /	Notes:	
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	110005.	
7:30					0 0							THES		
				X										
8:00				Х									Idle	
0.00				Х									4	
				X										
					Х								-	
0.00					Х								Moving crane, attach 200-6 vibe	
9:00					Х								4	
					Х							27/20		
								Х			Х	37/38	4	
								Х			X			
10:00								Х			Х		Driving on tail wall using 200-6 vibe	
								Х			Х			
								Х			Х			
								Х			Х			
11:00					Х									
					х									
					Х									
					Х								Repairing hose on vibe	
12:00					Х								-	
					X									
					X								1	
								Х		х		37/38		
13:00								X		X			1	
								X		X				
								X		X				
								X		X			1	
14:00								X		X				
								X		X				
								X		X			Driving again on tail wall	
15:00								X		X				
								X		X			-	
								X		X			-	
								Х		X			4	
16:00								Х		X			4	
10.00								Х		X			4	
								X		X			4	
	<u> </u>							Х		Х			4	
17.00	┨							Х		Χ		27/20		
17:00	 				Х							37/38	Vibe sitting on tail wall crew welding or	
	<u> </u>				Х								sheets	
	 				Х								Bring hammer in	
	1				Х									



PAGE 5 1-NOVEMBER-09

Time	Drivi	ing Tem	plate	Work	in progr	ess				Wat	er?	Cell /	Notes:
1 11110	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	10005.
7:30				Х								1 1100	
8:00				Х									
0.00				X									
				Х									Crane idle, crew welding on template
				Х									erane rate, erew werdning on template
0.00				Х									
9:00				X									
				Х									
				Х									
									Х		Х	32	
10:00									Х		Х		1
									Х		Х		
									Х		Х]
									Х		х		
11:00									Х		х		
									Х		Х		Driving on tail wall using SL-30 hamme
									Х		Х		
									Х		Х		
12:00									X		X		
									X		X		
									X		X		
									X		X		
13:00									X		X		
					Х						Λ		Maying arong
					X								Moving crane
					Λ				Х	х		31/32	
14:00										X			
									X				Driving on and next to wye
									X	X			
									X	X		31/32	
15:00									X	X		51/32	Driving on tail wall
15.00									Х	Х			
									Х	Х		32	
									X	X		32	4
16.00									Х	Х			4
16:00	<u> </u>								Х	Х			4
									Х	Х			Driving on face of cell 32
	<u> </u>								Х	Х			4
									Х	Х			4
17:00									Х	Х			4
									Х	Х			
					Х								Bring in hammer
				х									Down for night



PAGE 6 1-NOVEMBER-09

Гime	Drivi	ng Tem	plate	Work	in progr	ess				Wat	er?	Cell /	Notes:	
i iiile	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	10005.	
7:30					0.0							1 1105		
				X										
8:00				X										
0.00				X										
				Х										
					X								4	
0.00					Х								4	
9:00					Х								Moving crane and equipment	
					Х								4	
					Х								4	
					Х									
10:00								Х			X	10/11		
								Х			Х		1	
								X			X			
								Х			x			
11:00								Х			х		Driving on tail wall using 200-6 vibe	
								Х			х			
								Х			х			
								Х			Х			
12:00								X			X		1	
					Х								Removing vibe	
						х					Х	10/11		
						X					X		Stabling tail well shoats	
13:00						X					X		Stabbing tail wall sheets	
						X					X			
						Λ		v			X	10/11		
								X				-	1	
14:00								X			X		Driving again	
								X		X				
								X		Х			-	
								X		Х		10/11		
15:00						X						10/11	4	
15.00						X							Stabbing including intermediate tail wall	
						X							anchor	
						Х							4	
16.00						X						10/11		
16:00								X		Х		10/11	4	
								Х		Х			Durint 1	
								Х		Х			Driving again	
								Х		Х			1	
17:00								Х		Х				
					Х									
					Х								Pulling template walkway and resetting.	
					X									



ime	Drivi	ng Tem	plate	Work	in progr	ess				Wat	er?	Cell /	Notes:
	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	
7:30													
													1
8:00													1
													1
													1
	1												1
9:00													1
													1
													1
													1
10:00													1
													1
	1												1
													1
11:00													1
													1
													1
													1
12:00													1
													1
													Crane down all day
													Crane down an day
13:00													1
	1												1
													1
													1
14:00													1
													1
													1
													1
15:00													1
]
]
]
16:00]
]
]
]
17:00]
]
]
													1



Гime	Drivi	ng Tem	olate	Work	in progr	ess				Wat	er?	Cell /	Notes:
line	Piles	Frame	Deck	Idle	Staging	Stab	Vib-Stab	Vibe	Hammer	in	out	Piles	10000
7:30				Х									
	1			X									
8:00				X									
				X									
				X									
				X									
9:00				X									
				X									Idle
				X									
				Х									
10:00				Х									
				Х]
				Х]
				Х									
11:00				Х									
					Х							18/19	
					Х								Working on outside of cells 18/19
					Х								
12:00					Х								
					Х								
					Х								
12.00					Х								-
13:00	-				X								-
					X								4
					X								4
14:00					X								4
14.00					X								
				X									4
				X									1
15:00				X									1
				X									1
				X									1
				X									1
16:00				X									Idle
				X X									1
				X X									1
				X X									
17:00				X									
				X									
	1			X									1
	1			X									1



PAGE 9 1-NOVEMBER-09



Figure 01



Figure 02



Figure 03



Figure 05



Figure 04







Figure 07



Figure 08



Figure 10



Figure 11



Figure 09





PAGE 11 1-NOVEMBER-09



Figure 13



Figure 14



Figure 15



Figure 17







MKI	B Dail	y Equipment L	og		
In Use	Idle	Make	Description	Model	Id No.
Х		Manitowoc	Lattice Boom Crane	4100W–black tip	
Х		Manitowoc	Lattice Boom Crane	4100W- orange tip	
	Х	Manitowoc	Lattice Boom Crane	4000	
Х		Manitowoc	Lattice Boom Crane	2250 (blue)	
Х		Manitowoc	Lattice Boom Crane	2250 (orange)	
	х	Kobelco	Lattice Boom Crane	Yellow	
Х		Lima	1500 SC Crane	White	
Х		APE	Vib Hammer W/power unit	200-6	
Х		APE	Vib Hammer W/power unit	200-6	
	Х	APE	Vib Hammer W/power unit	200	
	Х	APE	Vib Hammer W/power unit	400	
	Х	APE	Vib Hammer w/power unit	KING KONG	
Х		BSP/PACO	Impact Hammer	SL-30	
Х		BSP/PACO	Impact Hammer	SL-30	
	Х	APE	Impact Hammer	7.2 HIH	
	Х	Grove	Man Basket	MZ 116C	
	Х	Grove	Man Basket	MZ 90	
Х		Genie	Man Basket	1073606	
		Whisperwatt	25KW Generator		982345
Х		Ford	4 Door PU Truck		
			Utility Bed Truck	2006 (half ton)	
			Utility Bed Truck with welder	1997 ()	
	Х		Boat		AK6492L
Х			Man Lift		
Х		Volvo	Front End Loader	L180C	
Х		Volvo	Front End Loader	L150E	

In	Idle	Make	Description	Model	Id No.
Use	X		Belly Dump Haul Truck	773B	2.72.022
	X X			773B 773B	2.72.022
			Belly Dump Haul Truck		2.72.003
	X		Belly Dump Haul Truck	773B	
	X		Belly Dump Haul Truck	773B	2.72.016
	X		Belly Dump Haul Truck	773B	2.72.004
	X		Belly Dump Haul Truck	773B	2.72.003
	Х		End Dump Haul Truck	773D	2.72.018
	Х		Belly Dump Haul Truck	773B	2.72.002
	Х		End Dump Haul Truck	773B	2.72.021
	X		End Dump Haul Truck	773D	2.72.017
	X		End Dump Haul Truck	773D	2.72.023
	Х		End Dump Haul Truck	773B	2.72.006
	Х		Water Truck	K-1200	2.72.024
Х		Kenworth	Fuel Truck		AK EMP748
		Dodge	Repair Truck	2500	
Х			Flat Bed	INT1021	ENN 755
			Repair truck (NIC Mac)		Ak000812
	Х	Volvo	Front end loader	L180F	
X		Volvo	Front End Loader	L220E	
X		САТ	Front end loader	988G	
	X	САТ	Front end loader	992C	
Х		Ingersoll Rand	Roller		2.13.009
X		CAT	Dozer	D-10N	2.51.005
	X	САТ	Dozer	D-10N	2.51.003
Х		Komatsu	Dozer	D61PX	
	X	CAT	Grader		2.40.013
	X	САТ	Grader		2-40-011
	X	Komatsu	Excavator	PC1100LC	2.33.008
X		Hitachi	Excavator	EX700	2.32.007
	X		Boat		



INSPECTION REPORT (SOILS)

X NO

PROJECT:	P.O.A. Expansion	PROJECT MGR:	DATE:	8/11/	/08
CLIENT:	ICRC	Superintendent: STEVE STICHLER /KEITH MOBLEY	WORK ORDER	A322	280
CONTRACTOR:	QAP/NORTH GEOTECHNICAL ENGINEERING	FOREMAN:	PAGE:	1 of	f 3
INSPECTOR:	Bob Teglund	WEATHER: clear	TEMPERATURE:	64	°F
		Reviewed By: / Date: 515 8/14/08	REPORT ID.:	S2008.0	08.11rt

YES

MAJOR ACTIVITY: Predrilling for vibrocompaction and soil haulage.

Memo Issued:

TIME	COMMENTS
7:00 am	• QAP had two trucks hauling soil for vibrocompaction from Elmendorf's pit to the North stockpile. Periodically the stockpile is leveled out by a dozer. I obtained a soil sample from the stockpile and transported it to the lab for a gradation.
	• QAP had one backhoe salvaging rock from the soil face next to the bay from Sta. 63+00 to Sta.67+00 and placing the rock in one truck which transported it to Sta.49+00 where a backhoe sank it in the bay.
	• Two dozers, one backhoe, and one roller are building the revetment Northwest into the bay. Trucks and bellydumps are placing granular soil from Sta. 49+00 Rt 500 to Sta. 50+00 Rt 500 and after the two dozers ramp the soil down, then it is rolled.
	• Buzdor is taking compaction tests. Discussed with Steve his means and methods for placing the soil. He said soon he will be hauling both common and granular soil.
7:00pm	• Ended shift at 7:00pm.
8:00am	• Keith Mobley, the foreman for Northern Geotechnical Engineering, did the predrilling for the vibrocompaction tests. His number is 529-9180. They are drilling 10 holes for PND Sandra Morris, P.E., Senior Engineer for PND (#907-561-1011) discussed with Keith wha she wanted him to do. Katie, Chris, Robert Wilson, and myself also were there for the discussion.
	• Keith Mobley gave ATL the soil samples that they took. Three holes were drilled B188 with 8 samples taken; B194 with eight samples taken; and B191 with nine samples taken Katie Swenson called me and directed ATL to not do gradations on the first three samples of each hole but to do gradations on test hole B188 samples 4,5,6,and 7; test hole B194 samples 4,5,6,and 7; and test hole 4,5,6,7,and 8. Hydrometers should be run on the silt which are for test hole B188 sample eight; test hole B194 sample eight; and test hole B199 sample nine. Katie wants the first three samples of each test hole saved for possible future use. She will send an e-mail tomorrow to confirm the aforementioned testing requirements
3:30	• Ended shift at 3:30.



PROJECT:	Port Of Anchorage Expansion	DATE:	8/11/08	REPORT ID.:	S2008.08.11RT
INSPECTOR:	Bob Teglund			PAGE:	2 of 3

Deficiencies:	0
Corrective Actions	
Outstanding Deficiencies	0



PROJECT:	Port Of Anchorage Expansion	DATE:	8/11/08	REPORT ID.:	S2008.08.11RT
INSPECTOR:	Bob Teglund			PAGE:	3 of 3



Figure 1

Vibrocompaction fill



Figure 3

Welding sheets together so when a sheet is driven other sheets will not run





Figure 2

QAP filling at sta. 49+00



Figure 5

Predrilling for vibrocompaction





Crossbracing a cell

.



INSPECTION REPORT (PILE DRIVING)

NO

PROJECT:	P.O.A. Expansion	PROJECT MGR:	Andy Romine	DATE:	8/11/08
CLIENT:	ICRC	Superintendent:	Tom Glenn	WORK ORDER	A32280
CONTRACTOR:	MKB Constructor	FOREMAN:		PAGE:	1 of 5
INSPECTOR:	Robert Wilson	WEATHER:	clear	TEMPERATURE:	62 °F
		Reviewed By: / Date:	5538/14/28	REPORT ID.:	p2008.11.08rkw

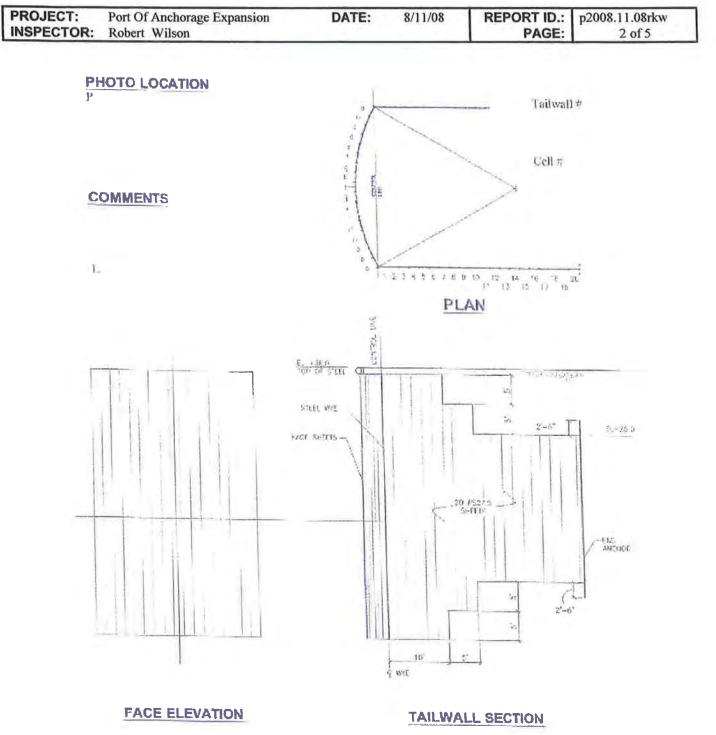
YES

MAJOR ACTIVITY:

Memo Issued:

TIME	COMMENTS
7:00	On Site. Both cranes have the booms down for servicing. I checked through the site and talked with Bob Teglund (ATL) and Kai Vedenoja (PND) regarding the work in progress.
8:00	The 4100 crane began removing the template for Pile cell #22. The 4000 walked to the north end and returned with the APE 300-4 Vibe head. Then it began driving piles in the tail section between cells 19 and 20.
11:30	The 4100 Crane has set the template for cell #24 and is preparing to begin setting sheet-pile sections on the template. Kai is checking the joints of piles to be placed with a gage. The Ape 300-4 Vibe Hammer sprung an oil leak and the crew is checking it out.
12:00	Off site
2:30	Back on site. The 4000 crane is idle now because the APE 300-4 Vibe Hammer is down. It looks like it will be down some time. They called the supplier and were trying to decide whether to bring in another hammer or fly someone up to try and fix this one on site. Before it broke down they completed driving the tail piles between 19 and 22 to final grade.
	The 4100 crane is continuing to set sheet-pile on the template at cell 24. They have set from east to west and are almost to the west wye.
3:30	To the field office to work with bob on reports.
6:30	Back to the docks. The 4100 completed setting all piles for cell 24 with the exception of the termination pile on the tail between 24 and 25.
7:00	Back to the field office to complete this report.
7:40	Off site





PND Engineers, Inc. Sheet Piling Reference Detail



PROJECT:	Port Of Anchorage Expansion	DATE:	8/11/08	REPORT ID.:	p2008.11.08rkw
INSPECTOR:	Robert Wilson			PAGE:	3 of 5

Field Checklist

KEY	C	NC	C = Conforming, NC = Non Conforming	KEY	C	NC	C = Conforming, NC = Non Conforming
A			Pre Driving - Mandatory	B			Driving Suggested
1	X		General Conformance with Pile Driving Plan	21			Time to drive, type of hammer, in-water time, energy input
2		X	Hammer and Equipment operating properly	21			Unsupported length of sheet pile cannot support weight of hammer
3			Material heat reports supplied	22			Coating damage from driving, repairs
4			Wye Fabrication Inspection Reports supplied				
5			Galvanizing Inspection reports supplied	С			Post Driving - Mandatory
6	X		Pile Storage – ground base, Dunage < 10', and vertically aligned,	1	X		Template removal
7			Approved Mill Cert. of material to be driven	2			Brace Inspection
8	X		Confirm Sheet length, Thickness for location- (Color code)	3			Sheet pile elevation after driving
9	X		Interlocks –visual	4			Initial filling
10	X		Interlocks – run with sheet pile thumb	5			Differential step filling
12	X		SWC – Butt joints	6		11	Fill layer placement
13	X	1	Sweep, Camber, Twist	7			Bulkhead distortion -filling, compaction
	()			8			Survey Wyes per schedule
			Pre Driving - Suggested	9			Survey locations of tail walls
20			Track heat number with final sheet location				
21			Interlock tolerances – finger thickness, gap opening, thumb root thickness				Post Driving Suggested
22			Coating damage, repairs	20		1	Monitor Piezometers
23			Monitoring Equipment	21			Survey face-sheet and tail wall movement, settlement plates

B			Driving - Mandatory	Non Conforming Items
1	X		Template stability – movement	-
2	X		Sequence	
3	X		Pile Staging, lofting, handling, threading, stabbing	
4	X		3 – point contact on interlocks	
5	X		Pile plumb and skew –particularly for face sheets	
6	X		Lead distance – Normal <5', Hard <2.5'	
7	X		Swing angle smooth, <10 degree	
8	X		Wye – driven location difference from theoretical	
9		X	Sheet damage - grips, interlocks, bottom	
10	S		Hard or soft driving	
11	X		Obstructions – note size and depth, monitor moving or removal, inspect piles for damage	
12	-	1	Driving out of interlock	
13			Approval for additional welding	
14		1	Approval for realignment of tail walls	



PROJECT:	Port Of Anchorage Expansion	DATE:	8/11/08	REPORT ID.:	p2008.11.08rkw
INSPECTOR:	Robert Wilson			PAGE:	4 of 5

Equipment on Site

In Use	Idle	Make	Description	Model	Id No.
МКВ					
Х		APE	Vibratory Hammer with power unit	300-4	
X		APE	Vibratory Hammer with power unit	200-6	
Х		Volvo	Front End Loader	L180C	
X		Manitowoc	Lattice Boom Crane	4100W	
Х		Manitowoc	Lattice Boom Crane	4000W	
Х		Whisperwatt	25KW Generator		982345
Х		Ford	4 Door PU Truck		
Х			Utility Bed Truck	2006 (half ton)	
Х			Utility Bed Truck with welder	1997 ()	
Х	1		Boat		AK6492L
Х			Man Lift	S-80	
Х			Man Lift	S-85	



PROJECT:	Port Of Anchorage Expansion	DATE:	8/11/08	REPORT ID.:	p2008.11.08rkw
INSPECTOR:	Robert Wilson			PAGE:	5 of 5

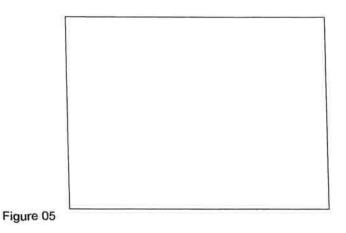


Figure 01 Sheet-Piles standing in place on the template at cell 24



Figure 03

View from the north end of the project



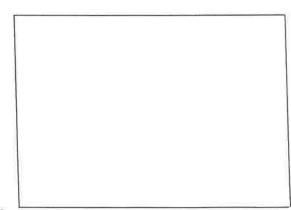


Preparing to drive tail piles



Figure 04

Looking north at the tail piles along the barge dry dock.







INSPECTION REPORT (PILE DRIVING)

x NO

PROJECT:	P.O.A. Expansion	PROJECT MGR:	Andy Romine	DATE:	8/12/08
CLIENT:	ICRC	Superintendent:	Tom Glenn	WORK ORDER	A32280
CONTRACTOR:	MKB Constructor	FOREMAN:		PAGE:	1 of 4
INSPECTOR:	Paul Twichell	WEATHER:	clear	TEMPERATURE:	62 °F
		Reviewed By: / Date:	555 8/14/08	REPORT ID .:	p2008.08.12pt

YES

MAJOR ACTIVITY: Drive sheet pile

Memo Issued:

TIME	COMMENTS
	High tide: 4:27 am 23.7 ft: 6:18 pm 25.6 ft
	Low tide 11:40 am 2.3ft;
	In water work 3:30 to 7:00 pm
	Out of water work: 7:00 am to 3:30 pm
	9:00 ar site: meet with Bob Tegland, get overview of job.
	Meet Andy Romine, Tom Glen and Ron Davis.
	10:00 Set soldier piles.
	Had trouble with knife plate which vibrator connects to.
	Vibrator has shattered knife plate.
	11:00 Pull soldier piles to reweld knife plates.
	4000w crane down for repair at north end of job site.
	12:00 Lunch break
	12:30 not going to drive soldier piles at this time.
	1:30 Vibrate tail sheets between 23-24 cell
	2:45 Vibrate in face sheets 23 cell.
	2:55 Vibrate in face sheets 22 cell.
	4:00 Continue vibrating sheets 21- 22 wall and 25-26 walls.
	7:00 Shut down.
	Three man crew working on probe and soldier pile at lay-down area 12 hrs.



PROJECT:	Port Of Anchorage Expansion	DATE:	8/12/08	REPORT ID.:	P2008.08.12
INSPECTOR:	Paul Twichell			PAGE:	2 of 4

All sheets were previously inspected and in place and partially driven in cells22,23,24,25.
Sheets in cells 22'23'24' and 25 driving completed.
Soldier pile knife plate to which the vibration unit attaches shattered and the pipe along the vertical welds at the knife plate cracked and deformed the top of the pipe.
Soldier piles not put in until corrective measures can be taken.
Failure of knife plate.



PROJECT:	Port Of Anchorage Expansion	DATE:	8/12/08	REPORT ID.:	P2008.08.12
INSPECTOR:	Paul Twichell			PAGE:	<u>3 of 4</u>

Field Checklist

KEY	С	NC	C = Conforming, NC = Non Conforming	KEY	C	NC	C = Conforming, NC = Non Conforming
A			Pre Driving - Mandatory	В			Driving Suggested
1	Х		General Conformance with Pile Driving Plan	21			Time to drive, type of hammer, in-water time, energy input
2	X		Hammer and Equipment operating properly	21			Unsupported length of sheet pile cannot support weight of hammer
3	X		Material heat reports supplied	22			Coating damage from driving, repairs
4	X		Wye Fabrication Inspection Reports supplied			1.1	
5	X		Galvanizing Inspection reports supplied	C			Post Driving - Mandatory
6	X		Pile Storage – ground base, Dunage < 10', and vertically aligned,	1	X		Template removal
7	X		Approved Mill Cert. of material to be driven	2	12		Brace Inspection
8	X		Confirm Sheet length, Thickness for location- (Color code)	3	X		Sheet pile elevation after driving
9	X		Interlocks -visual	4			Initial filling
10	X		Interlocks – run with sheet pile thumb	5		1.2.1	Differential step filling
12	X		SWC – Butt joints	6			Fill layer placement
13	X		Sweep, Camber, Twist	7		1	Bulkhead distortion -filling, compaction
				8			Survey Wyes per schedule
1.54			Pre Driving - Suggested	9			Survey locations of tail walls
20			Track heat number with final sheet location				
21			Interlock tolerances – finger thickness, gap opening, thumb root thickness				Post Driving Suggested
22	X		Coating damage, repairs	20			Monitor Piezometers
23			Monitoring Equipment	21			Survey face-sheet and tail wall movement, settlement plates

B		Driving - Mandatory	Non Conforming Items	
1	X	Template stability – movement		
2	X	Sequence		
3	X	Pile Staging, lofting, handling, threading, stabbing		
4	X	3 – point contact on interlocks		
5	X	Pile plumb and skew –particularly for face sheets		
6	X	Lead distance – Normal <5', Hard <2.5'		
7	X	Swing angle –smooth, <10 degree		
8	X	Wye – driven location difference from theoretical		
9	X	Sheet damage – grips, interlocks, bottom		
10	X	Hard or soft driving		
11		Obstructions – note size and depth, monitor moving or removal, inspect piles for damage		
12		Driving out of interlock		
13	X	Approval for additional welding		
14	X	Approval for realignment of tail walls		



PROJECT:	Port Of Anchorage Expansion	DATE:	8/12/08	REPORT ID.:	P2008.08.12
INSPECTOR:	Paul Twichell			PAGE:	40f 4

Equipment on Site

In Use	Idle	Make	Description	Model	Id No.
МКВ					
X		APE	Vibratory Hammer with power unit	300-4	
	X	APE	Vibratory Hammer with power unit	200-6	
X		Volvo	Front End Loader	L180C	
X		Manitowoc	Lattice Boom Crane	4100W	
X		Manitowoc	Lattice Boom Crane	4000W	
X		Whisperwatt	25KW Generator		982345
X		Ford	4 Door PU Truck		
X	1		Utility Bed Truck	2006 (half ton)	
X			Utility Bed Truck with welder	1997 ()	
X			Boat		AK6492L
X			Man Lift	S-80	
X			Man Lift	S-85	



INSPECTION REPORT (SOILS)

x NO

PROJECT:	P.O.A. Expansion	PROJECT MGR:	Tom Pitt	DATE:	8/12/	/08
CLIENT:	ICRC	Superintendent:	Steve Stichler	WORK ORDER	A32280	
CONTRACTOR:	QAP	FOREMAN:		PAGE:	1 of 2	
INSPECTOR:	Bob Teglund	WEATHER:	clear	TEMPERATURE:	62	°F
		Reviewed By: / Date:	555 8/14/08	REPORT ID.:	S2008.1	2.08rt

YES

MAJOR ACTIVITY: Hauled soil from Elmendorf pit to sta. 49+00 and stockpiled vibrocompaction fill

Memo	Issued:
	recubat

TIME	COMMENTS
7:00am	• QAP continues to haul vibrofill soil to the stockpile at the North end of the job from Elmendorf pit where CQC is processing the material. Per John's direction ATL is taking a soil sample there every other day.
	• Riprap is being excavated from two places by a backhoe ,i.e., at sta. 63+00 and sta. 67+00 where one backhoe is placing soil into one truck. The rock has been salvaged from the shoreline and it is being placed in the bay by another backhoe.
	• The bellydumps and trucks are hauling granular soil from the Elmendorf pit and are placing the soil between sta. 49+00 rt 500 and sta.50+00 rt 500, then the three dozers are ramping it towards the bay and a medium compactor is rolling it. Buzdor Engineering is doing the QA testing. One blade is smoothing the slope's edge.
	• Discussed with Steve, QAP's superintendant, his soil game plan. He intends to haul just granular soil for the next four or five days and then haul both common and granular soil.
	• Obtained two granular samples and transported them to the lab for gradations.
	• Discussed the project with John and he stated that he wants common fill to be sample every once in a while. Will take a sample every two weeks.
7:00pm	• End of shift

Deficiencies:	none
Corrective Actions	none
Outstanding Deficiencies	none



INSPECTION REPORT (SOILS)

x NO

PROJECT:	P.O.A. Expansion	PROJECT MGR:	DATE:	8/12/08		
CLIENT:	ICRC	Superintendent:		WORK ORDER	A32280	
CONTRACTOR:	N. Geotechnical	FOREMAN: Keith		PAGE:	1.of 2	
INSPECTOR:	Bob Teglund	WEATHER:	clear	TEMPERATURE:	62	°F
		Reviewed By: / Date:	555 8/19/0	REPORT ID.:	S2008.0	8.12rt

YES

MAJOR ACTIVITY: Hauled soil from Elmendorf pit to sta. 49+00 and stockpiled vibrocompaction fill

Memo Issued:

TIME	COMMENTS					
7:00am	Keith bored four holes B189 to 46.5 feet, B190 to 46.5 feet, GH173 to 41.5 feet, and BH174 to 41.5 feet. I discussed with Katie Swenson via telephone what she wanted tested. The following was what samples she wanted tested: B189 sample 3,4,5,6,and 7 with a hydrometer on 8; B190 sample 4,5,6,7,and 8 with a hydrometer on 9; BH173 sample 3,4,5,6,and 7A with hydrometers on 7B and 8; and BH174 sample 3,4,5,6,and 7 with a hydrometer on 8. I received the samples from Keith and will transport them to the lab to be run tomorrow morning.					
5:00pm	End of shift.					

Deficiencies:	none	
Corrective Actions	none	
Outstanding Deficiencies	none	

Item H8:

RFI #51 – Driving Conditions

(plearated Concepts and	d Research Corrowation							
	421 West First Avenue, Suite 200				P. 1 of 3			
	Anchorage, AK 99501		REQUEST FOR INFORMATION (RFI)					
Office 907.561,4272 •	Fay 907 581 4271							
	12x 601.301,4211	L						
1. COMPANY NAME:	2. RFI NUMBER:		3. RFI SUBJECT:	4. DATE RE	QUESTED:			
MKB Constructors		51		October 14,				
5. DATE REQUIRED;	6. SUBCONTRACT	NUMBER:	7. PROJECT TITLE:					
Immediate			Port of Anchorage Expansion					
8. SITE LOCATION: Dry Barge Bei	rth		9. REQUESTED BY: Andy Romine/MKB Project Manager					
		a. REQUESTED BT, Andy Rommenwike Project Manager						
10. DESCRIPTION OF REQUEST:					· · · · · · · · · · · · · · · · · · ·			
At the request of ICRC we are provid e-mail of 10/8/08 we are experiencing materials to be encountered indicated within the practical limits of the hamm tip. We are experiencing blow counts the wyes themselves seem to be the slope movement that may tend to bin that will be installed at future location within the limits of the equipment that feel that none of them are a practical north end of the North Extension port with. Additionally we are concerned of See attached,	g significant resistance d that all materials woul ners. Currently we are s that exceed 200 per for most problematic but a id the sheets by utilizing is. Although our prelimi t we submitted with our solution to the driving r tion of the project where	at depths of 10 ld be drivable v exceeding the col. As mentional and the sheets and g additional pip inary analysis driving plan ar resistance we as a the piles are a	D-15' above tip elevation. On with a combination of the vib practical limit of the impact h and by the on-site engineer re experiencing significant re re pile driven into the slope. of the soils conditions indicat and brought to site we have re are encountering. We are also driven 10' deeper into material.	ar preconstruction analysis ratory and impact hamme hammer while driving the the areas coming into an esistance. We have taken We have also procured z led that we would be able eviewed the plan suggest so concerned about the lass that we are already e	is of the soils ars we submitted last 10' of the piles to d out of the wyes and h steps to limit any i-shaped sheet pile to drive the piles ed driving aids and planned work on the			
11. ENGINEER RESPONSE AND A								
It is our understanding that			-					
partial hammer stroke. F					•			
concerned about hard dri								
bulkhead, until the pre-dredged area is encountered. When MKB was queried about their schedule they								
still say they are "on sched	Jule".							
				•				
The design drawings did indicate (BB Phase 2, sheet 4, section 4E) that "Soil conditions are hard and								
dense. Driving is expected to be difficult. The specifications reference methods such as pre-boring								
and trenching that may be	required if driving	g becomes	difficult.					
See attached. Continues on P	age 2 of 3							
12. DISCIPLINE ENGINEER SIGNAT	TURE:	13. TITL	E:	14. DATE:				
15. ICRC'S RESPONSE AND ACKN				I				
Resubmit pile drilling plan prior to starting next year's work incorporating the recommendations of								
APE on optimal equipment for these difficult conditions and recommendations from your engineer regarding								
your equipment selection and known conditions.								
16. CONSTRUCTION ENGINEER/M	ANAGER SIGNATURE	: 17. TITL	E:	18, DATE:				
			<u></u>					
19. ICRC'S REP/PROJECT MANAGE	ER SIGNATURE:	20. TITL	E;	21. DATE:	ß			
top Wild			łun	10/31/07	pD			

NOTE: Subcontractor proceeds at his own risk without the written approval of ICRC.

;

Cont. pg. 2 of 3 (RFI# 051)

Our understanding is that MKB will be sending their rented equipment back south until spring time.

We would suggest that the contractor revisit the equipment needs with both APE and GRL with any additional information and modify there equipment as necessary. We would suggest that MKB use the time over their winter shut-down to tune up some of their methods as well as consider other methods for improving driving conditions.

The sub-contractors field methods do not exactly match their pile driving submittal from their pile driving experts, GRL Engineers Inc. Some of these variations may be creating additional problems.

Another issue to consider is that the ram weight (11 kips) to pile weight (12 kips) is certainly on the high side. The hammer is currently buckling the top end of the sheets. We would recommend APE and GRL revisit the driving equipment for driving sheets for this project. With their current setup the two sheet scenario interferes with the pant legs. Their wide pant legs spacing appears to allow the piles to buckle. Another observed problem is that the driving helmet appears to be damaged, not contacting the sheet squarely, which may be causing additional eccentricity to the sheets, exacerbating the buckling problem.

Currently Duttra is on standby for the ACOE dredging contract and they will likely be back next year. They could dredge along the sheetpile to minimize driving difficulties. In order to minimize potential for a slope failure we would suggest at a minimum that they trench and backfill maintaining no more than say a 50 foot open section of trench at a time. There will be some soil arching around the dredged zone that will tend to restrain the slope failure. Obviously the contractor would need to reduce other impacts if a slope failure were to occur.

Jetting might work. We have discussed jetting with a local contractor that has had good success jetting Cook Inlet silts and clays. The typical jetting is relatively low pressure erosion of the material with water. For silts and clays cutting the material with high pressure (200+ psi) combined with compressed air reportedly works effectively. The water/air jet could be incorporated with their vibratory probe with the 1000 horsepower vibratory hammer they have on site.

One compounding problem, that MKB seems to have recognized, is the over-steepened foreslopes are sloughing as they install sheets, creating more tension, interlock friction and driving resistance.

Again these are some ideas that may be helpful for the sub-contractor tune up their driving program to be more successful.

In regards to the sheet pile spice adequacy, the first step is to determine the tensile and compressive forces generated by the driving conditions. This would have already been done in the wave equation pile analysis performed by GRL Engineers, Inc.

We suggest updating the pile driving plan. As is often necessary, analysis assumptions that were made were not entirely accurate. The pile driving analysis should be updated to reflect the actual conditions including: hammer, driving helmet, pant legs, soil driving conditions, etc.

Specifically, the initial analysis assumed vibratory driving of one sheet and impact driving of two sheets. The current impact hammer arrangement requires three sheets to be driven at a time. The analysis was performed on a similar hammer but not the exact one being used for impact driving. The current impact hammer configuration of pants and drive cap are causing the sheets to buckle at the tops when the full hammer stroke is employed. The pants need to provide more lateral support to the sheets to avoid buckling the sheets. The pile driving equipment provider and driving analysis should be consulted on possible ways to avoid this situation.

Item H9:

QAP Letter 087 Seaward Wall Movement



GENERAL CONTRACTORS

240 W. 68th Avenue, Anchorage, Alaska 99518 Telephone (907) 522-2211 Fax (907) 344-5798

June 1, 2009

John K. Williams Construction Manager III ICRC - Anchorage Port Expansion Team 421 West Post Ave. Anchorage, AK 99501

Re: Port of Anchorage Expansion Project 2008 Marine Terminal Redevelopment Sea ward wall movement Letter No. 087

Mr. Williams

Please see the attached letter from our subcontractor MKB outlining changes to the original work plan. MKB is reassigning crew efforts to drive tail wall sections to grade as to minimize cell movement sea ward. This reallocation of resources was not planned in the original schedule of work as it does affect the overall schedule. QAP will provide ICRC with an updated schedule as soon as a new work plan can be created. At this time QAP and MKB will not continue to drive new cells southbound until this issue of sea ward movement can be resolved.

Thank you,

Tim Dudley Project Superintendent

t: 425.285.0593 f: 425,285.0641



12735 Willows Road NE, Kirkland, WA 98034 mkbconstructors.com

May 29, 2009

Tim Dudley Quality Asphalt Paving 240 W. 68th Avenue Anchorage, AK 99518

Re: Port of Anchorage Expansion Project 2008 Marine Terminal Redevelopment

Gentlemen;

We have previously notified you we are experiencing a general sea ward (west) movement of the wye locations during the installation of the sheet pile cells. In response to several meetings concerning this issue we implemented a number of changes to the work plan for the installation of the cell structures in an attempt to mitigate this issue. These changes included moving the temporary sheet pile wall down slope and installing to a deeper elevation, moving the crane work areas back approximately 20 to 25', vibro probing the slope prior to installation of the cells, installing the extended tail walls, and sloping the work dike from the temporary wall to the top of the work pad slope at an approximately 3.5 to 1.

These changes were initiated prior to the latest cell construction on the project (15/16 and 45/46). As we reported in the weekly progress meeting of May 27, 2009 we are still experiencing movement in the walls, as much as a foot or more and the walls are only partially driven. Based on this information and the fact that you have engaged a testing firm to conduct tests concerning this issue we are changing our work program and reassigning our work crews to installation of the extended tail walls at cells already in place.

We will evaluate future work efforts based on the progress and the needs of the testing program and other factors as appropriate.

If you have any questions please contact me.

Sincerely, MKB Constructo Andrew Alaska Regional Manager