Job No.:415-2328-007Phase:003CTask:RQ01Project:Wheeler Bay Shoreline Stabilization Slope Repair	Report No. 1		
Owner: Port of Portland	Page 1 of 1		
Contractor: Northwest Earthmovers, Inc.	Date: October 1, 2010		
Contractor's Rep./Title: Jeff Hargens, Project Manager	Day: Friday		
Weather A.M.: 60 °F P.M.: 70 °F Site Conditions: (Good) (Fair) (Po	Overcast, dry, slight breeze, warm		
Location and Type of Work: Terminal 4, Wheeler Bay			
Number and Classification of Contractors, Men, and Equipment (include condition of equipment Carl Johnsen, NEI Mike Madison, NEI 1-Hitachi 160 Track hoe, 2-NEI work trucks	nt):		
Work in Progress (include report of operations, materials received and condition, work start/sto Installed sediment fence and no new work were started.	op time, and any unusual conditions):		
Work Completed: Completed installing sediment fence along shore line.			
Discrepancies Noted: (Nonconformance Report #)			
Discussions with Contractor (include orders given and received): Possible issue with Kinder Morgan's rail line and in use working hours of that line may effect NEI's ability of crossing the			
Any Cause for Dispute, Change Orders, or Delays, and Reasons:			
Extra Work in Progress-Description (include Extra Work Report Form):			
Items for Office Action:			
Visitors: John Durst, POP; stopped by the site.			
Notes:			
Onsite for start up safety meeting; Roger Anderson, POP; Kelly Madalinski, POP; Sheila McCo Stone, Anchor; Philip Hansen, NEI; Jeff Hargens, NEI; Carl Johnsen, NEI; Mike Madison, NEI			
	Ingmar Saul, R.G.		

Signature



Onsite field meeting after tailgate safety meeting.



Installation of sediment fence.



Delivery of Hitachi 160 track hoe to the site.



Overview of work area.

Job No.:	415-2328-007 Phase: 003C Task: RQ01	Report	No. 2
Project:	Wheeler Bay Shoreline Stabilization Slope Repair		
Owner:	Port of Portland	Page	of
Contractor:	Northwest Earthmovers, Inc.	Date:	October 4, 2010
Contractor's F	tep./Title: Jeff Hargens, Project Manager	Day:	Monday
Weather A.M.	°F P.M.: °F Site Conditions: (Good) (Fair) (Po	oor)	Overcast, partly sunny, drizzly, cool
Location and	Type of Work: Terminal 4, Wheeler Bay		
Carl Johnson, Mike Madison		nt):	
Work in Progr No new work	ess (include report of operations, materials received and condition, work start/stowas started.	op time,	and any unusual conditions):
Work Completed real	red: moving all woody debris out of work area, removed existing habitat layer and exp	posing u	inderlying rip rap.
Discrepancies	Noted: (Nonconformance Report #)		
Discussions with Contractor (include orders given and received): Kinder Morgan will not be operating the rail line tomorrow so NEI will be bringing in half of the required rip rap and some select fill.			
Any Cause for	Dispute, Change Orders, or Delays, and Reasons:		
Extra Work in Progress-Description (include Extra Work Report Form):			
Items for Office	e Action:		
Visitors: Kelly Madalinski, POP; stopped by the site. Jeff Hargens, NEI; stopped by the site after contractors meeting. Tim Stone on site as Port Inspector.			
Notes:			
Weekly construction meeting; Roger Anderson, POP; Kelly Madalinski, POP; John Durst, POP; Marcel Hermans, POP; Ingmar Saul, PMX; Tim Stone, Anchor; John Verduin, Anchor, by phone.			
<u> </u>		Ingma	ar Saul, R.G.
		S	ignature



Moving track hoe down existing grade to work area.



Removing woody debris out of work area.



Cutting and removing woody debris anchor chains.



Removing habitat layer and exposing underlying rip rap.

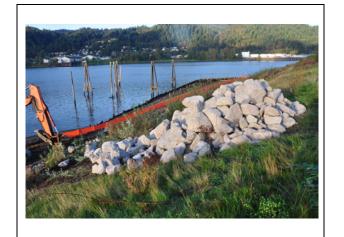
Job No.: Project:	415-2328-007 Phase: 003C Task: RQ01 Terminal 4 Wheeler Bay Shore Line Restoration	Report	No. <u>3</u>
Owner:	Port of Portland	Page	1 of 1
Contractor:	Northwest Earthmovers Inc.	Date:	October 5, 2010
Contractor's F	Rep./Title: Jeff Hargens, Project Manager	Day:	Tuesday
Weather A.M.	: 50	oor)	Overcast-Sunny, Dry, slight breeze, no dust
Location and	Type of Work: T4 Wheeler Bay Shore Line Restoration		
Carl Johnson,	Classification of Contractors, Men, and Equipment (include condition of equipment NEI 1-Hitachi 160 track hoe schor, Port Inspector 1-CAT IT28G front loader 3-steel sheets	nt):	
_	ess (include report of operations, materials received and condition, work start/st red rip rap to work area from 0-30 to 0+75, approximately.	op time,	and any unusual conditions):
Work Completed: 13 loads of rip rap were delivered to the site (total of 190.28 tons) 3 loads of select fill was delivered by truck and transfer (total of 6 loads and 97 tons) Repaired demarcation fencing where it had been washed away or torn.			
Discussions w	rith Contractor (include orders given and received):		
Any Cause for	Dispute, Change Orders, or Delays, and Reasons:		
Extra Work in	Progress-Description (include Extra Work Report Form):		
Items for Office	e Action:		
Visitors:			
Jeff Hargens,	NEI.		
Notes: Kinder Morgal	n will be back to work tomorrow and using the rail line.		
		Ingm	ar Saul, R.G.
			Signature



Repairing demarcation fencing.



Delivery of select fill material.



Delivery of rip rap material.



Steel sheets where place on exiting grade to keep it from being torn apart when the rip rap is being delivered.



Delivery of rip rap onto steel sheets.



New piece of equipment brought to the site.



Initial placement of rip rap from 0-30 to 0+75.

Job No.:	415-2328-007 Phase: 003C Task: RQ01 Terminal 4 Wheeler Bay Shore Line Restoration	Report	No. <u>4</u>
Project: Owner:	Port of Portland	Page	1 -4 1
		Page	1 of 1
Contractor:	Northwest Earthmovers Inc.	Date:	October 6, 2010
Contractor's F	Rep./Title: Jeff Hargens, Project Manager	Day:	Wednesday
Weather A.M.	: °F P.M.: °F Site Conditions: (Good) (Fair) (Po	oor)	Clear, Sunny, Dry,
Location and	Type of Work: T4 Wheeler Bay Shore Line Restoration		
Carl Johnson, Mike Madison		•	
Moving delive Moving select	ess (include report of operations, materials received and condition, work start/st red rip rap to work area from 0+75 to 1+35, approximately. fill to work area, placing from 0-30 to 1+00, approximately. o on top of select fill.	op time,	and any unusual conditions):
Work Comple	ted:		
· ·	rap delivered (59.22 tons).		
NEI brought 1	additional steel sheet.		
Discussions w	vith Contractor (include orders given and received):		
Any Cause fo	r Dispute, Change Orders, or Delays, and Reasons:		
Extra Work in	Progress-Description (include Extra Work Report Form):		
Items for Office	e Action:		
Visitors:			
Jeff Hargens,	NEI; John Durst, POP; Tom Peterson, POP; Philipp Bails, POP;		
Notes:			
	n finished loading their current ship by midmorning. The rail line was not being us to deliver rip rap. Cemex was only able to send one truck but that truck made		the rest of the day. NEI
		Ingma	ar Saul, R.G.
		S	ignature



Transferring the select fill from the loader to the track hoe for placement.



Placing the select fill above the rip rap as shown on the cross-section detail.



Placing the rip rap on top of the select fill as shown on the cross-section detail.



Checking rip rap elevation at 16.5 feet.

Job No.: _ Project: _ Owner:	415-2328-007 Phase: 003C Task: RQ01 Terminal 4 Wheeler Bay Shore Line Restoration Port of Portland	Report Page	No. <u>5</u> 1 of 1
Contractor:	Northwest Earthmovers Inc.	Date:	October 7, 2010
Contractor's R	ep./Title: Jeff Hargens, Project Manager	Day:	Thursday
Weather A.M.:	°F P.M.: °F Site Conditions: (Good) (Fair) (Pe	oor)	Overcast, Dry, Cool,
Location and T	Type of Work: T4 Wheeler Bay Shore Line Restoration		
Carl Johnson, Mike Madison,		•	
Moving deliver Moving select	ess (include report of operations, materials received and condition, work start/st ed rip rap to work area from 1+35 to 2+25, approximately. fill to work area, placing from 1+00 to 2+25, approximately. on top of select fill.	op time,	and any unusual conditions):
· ·	ed: rap delivered (177.98 tons). ct fill delivered (truck and transfer) (64.02 tons).		
Discussions wi	ith Contractor (include orders given and received):		
Any Cause for	Dispute, Change Orders, or Delays, and Reasons:		
Extra Work in I	Progress-Description (include Extra Work Report Form):		
Items for Office	e Action:		
Visitors:			
Jeff Hargens, N	NEI; Rodger Anderson, POP; John Durst, POP;		
Notes: Kinder Morgan working on the	s should finish loading the current ship tonight or tomorrow. Then Kinder Morga dock.	n will be	shut down while the Port is
		Ingma	ar Saul, R.G.
		S	Signature



Modified rip rap delivery shoot.



Completed rip rap from 0+00 to 0-30. Tying rip rap into existing rip rap.



Rip rap has been place to 2+25 and checking for elevation at 16.5 feet.



Rip rap and select fill has been completed to cross-section detail.

Job No.: 415-2328-007 Phase: 003C	Task: RQ01	Report No	o. <u>6</u>	
Project: Terminal 4 Wheeler Bay Shore Line Restoration				
Owner: Port of Portland		Page	1 of1	
Contractor: Northwest Earthmovers Inc.		Date: C	October 11, 2010	
Contractor's Rep./Title: Jeff Hargens, Project Manager		Day:	Monday	
Weather A.M.: °F P.M.: °F Site Con	ditions: (Good) (Fair) (Po	oor) [Ory, Partly Sunny.	
Location and Type of Work: T4 Wheeler Bay Shore Line Restoration	on			
Number and Classification of Contractors, Men, and Equipment (inclu 1-Hitachi 160 track hoe 1-CAT IT28G front loader 4-steel sheets Work in Progress (include report of operations, materials received an		,	nd any unusual conditions):	
volk in 1 regress (include report of operations, materials received an	d condition, work starts.	op time, ai	na any anasaar conditions).	
Work Completed: No work crews worked Friday ,10/8, or Monday, 10/11. Regularly scheduled construction meeting took place at 1115 as a conference call.				
Discussions with Contractor (include orders given and received):				
Any Cause for Dispute, Change Orders, or Delays, and Reasons:				
Extra Work in Progress-Description (include Extra Work Report Form):				
Items for Office Action:				
Visitors:				
Notes: No work crews working. Waiting for top soil approval and delivery of large woody debris (logs). Attending weekly construction meeting by phone: John Durst, POP; Rodger Anderson, POP; Marcel Hermans, POP; Tim Stone, Anchor; Ken Fellows, PMX; Ingmar Saul, PMX;				
		Ingmar	Saul, R.G.	
		Sig	nature	

Job No.:	415-2328-007 Phase: 003C Task: RQ01	Report	No. 7	
Project:	Terminal 4 Wheeler Bay Shore Line Restoration			
Owner:	Port of Portland	Page	1 of 1	
Contractor:	Northwest Earthmovers Inc.	Date:	October 13, 2010	
Contractor's	Rep./Title: Jeff Hargens, Project Manager	Day:	Wednesday	
Weather A.M		oor)	Sunny, Dry, Slight Breeze	
Location and	Type of Work: T4 Wheeler Bay Shore Line Restoration			
Number and	Classification of Contractors, Men, and Equipment (include condition of equipme	ent):		
Carl Johnson	ı, NEI 1-Hitachi 160 track hoe 1-NEI work truck 1-CAT IT28G front loader	s		
Tim Stone. A	nchor, Port Inspector 4-steel sheets			
	ress (include report of operations, materials received and condition, work start/s	top time	and any unusual conditions):	
J	vs working on Tuesday 10/12.		, and any anactal containency.	
Placed large	woody debris end to end from 3+50 to 6+70, approximately.			
Work Comple	eted:			
	large woody debris were delivered to the site for a total of 10 logs.			
Placed surve	y steaks from 3+00 to 7+00, approximately, at the 15 ft elevation.			
Removed sal	vaged driftwood from work area from 3+00 to 7+00, approximately.			
Removed the	habitat layer exposing the former rip rap from 2+60 to 3+15, approximately.			
Discussions v	with Contractor (include orders given and received):			
	ain that was delivered was galvanized contractor checking submittal for approven a non-galvanized chain.	d produ	ct. Chain will have to be	
Discussed ar surface.	nchor detail of large woody debris and placement of stainless steal cable and sw	agged e	nd in relation to the ground	
Any Cause fo	or Dispute, Change Orders, or Delays, and Reasons:			
Extra Work in	n Progress-Description (include Extra Work Report Form):			
Items for Office	ce Action:			
Visitors:				
Jeff Hargens	, NEI; and Philipp Bails, POP;			
Notes:				
_	Kinder Morgan is shut down this week while the Port is working on their pier.			
No work crew	vs worked on Tuesday, 10/12.			
300 ft of ¾ in	ch chain was delivered, but it is galvanized, it will need to be exchanged with no	n-galvar	nized.	
	nd all related items were brought out to the site by NEI.	<u> </u>		
		Ingm	ar Saul, R.G.	
			Signature	



Delivery of large woody debris (LWD).



Cleared away exiting driftwood from work area, approximately 3+00 to 7+00.



Removing habitat layer and exposing existing riprap at approximately 2+60 to 3+20.

Job No.: Project:	415-2328-007 Phase: 003C Task: RQ01 Terminal 4 Wheeler Bay Shore Line Restoration	Report	No. 8
Owner:	Port of Portland	Page	1 of 1
Contractor:	Northwest Earthmovers Inc.	Date:	October 14, 2010
Contractor's F	Rep./Title: Jeff Hargens, Project Manager	Day:	Thursday
Weather A.M.	: 48 °F P.M.: 67 °F Site Conditions: (Good) (Fair) (P	oor)	Foggy, Sunny, Dry,
Location and	Type of Work: T4 Wheeler Bay Shore Line Restoration		
	Classification of Contractors, Men, and Equipment (include condition of equipme	•	
Carl Johnson,			
Mike Madison	•		
	nchor, Port Inspector 4-steel sheets		1 100
_	ess (include report of operations, materials received and condition, work start/sign the first large woody debris anchors but the method that NEI was using did no morrow.	•	•
Work Comple			
	large woody debris were delivered to the site for a total of 8 logs.		
	Fabric were delivered to the site.		
	e Hitachi 160 track hoe out the sample model Hitachi 160 track hoe. The new t late. The compaction plate is how the anchors will be driven into the ground.	rack hov	v can be fitted with the hoe
Discussions w	vith Contractor (include orders given and received):		
Any Cause fo	r Dispute, Change Orders, or Delays, and Reasons:		
Extra Work in	Progress-Description (include Extra Work Report Form):		
Items for Office	ee Action:		
Visitors:			
Notes:			
NEI will be wo	orking tomorrow. They plan on delivering more large woody debris and installing	g anchor	S.
		Ingm	ar Saul, R.G.
		5	Signature



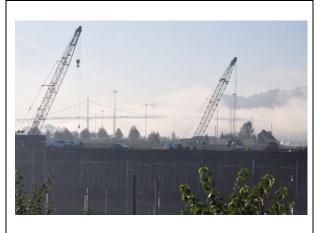
Exchanging track hoes with one that can be fitted with a hoe pack (compacting plate).



Welding a piece of pipe to the bottom of the hoe pack. This is how NEI will install the anchors for the large woody debris.



Installing the first anchor for the large woody debris.



Looking south, from the site, to the St. Johns Bridge in the early morning.

Job No.:	415-2328-007 Phase: 003C Task: RQ01	Report	No. 9	
Project:	Terminal 4 Wheeler Bay Shore Line Restoration			
Owner:	Port of Portland	Page	1 of 1	
Contractor:	Northwest Earthmovers Inc.	Date:	October 15, 2010	
Contractor's F	ep./Title: Jeff Hargens, Project Manager	Day:	Friday	
Weather A.M.	9F P.M.: 65 °F Site Conditions: (Good) (Fair	r) (Poor)	Foggy, Sunny, Wet, Slight Breeze	
Location and Type of Work: T4 Wheeler Bay Shore Line Restoration				
Number and 0	lassification of Contractors, Men, and Equipment (include condition of equi	pment):		
Carl Johnson,	NEI 1-Hitachi 160 track hoe 1-NEI work to	ruck		
Mike Madison	NEI 1-CAT IT28G front loader 1-end dump			
Tim Stone, Ar	chor, Port Inspector 4-steel sheets			
_	ess (include report of operations, materials received and condition, work sta	•		
one anchor wa ground. NEI f	2 inch rod that was used to drive the anchors into the ground was not stro is driven before the rod bent. What NEI will do know is drive a pilot hole fire abricated a 3 inch pilot hole rod at the site. After driving the first pilot hole to and no more anchors could be set. NEI will redesign the welds on the hoe	st before driv he weld hold	ving the anchor into the ling the pilot hole rod broke on	
Work Complet				
2 loads of larg	e woody debris were delivered to the site for a total of 11 logs. The total nu	ımber of log	s delivered to the site is 29.	
Discussions w	th Contractor (include orders given and received):			
Any Cause for	Dispute, Change Orders, or Delays, and Reasons:			
Extra Work in	Progress-Description (include Extra Work Report Form):			
Items for Office	e Action:			
Visitors:				
Jeff Hargens,	NEI;			
Notes:				
Rained last ni	ıht.			
	at 0730 on Monday since it is still dark at 0700.			
<u> </u>		Ingm	ar Saul, R.G.	
		5	Signature	



Two inch solid steel rod that will be used to drive the Manta Ray anchors into the ground.



The two inch steel rod fits into the Manta Ray anchor.



Driving the Manta Ray anchor and threaded rod into the ground.



The subsurface material was considerably denser in areas and while driving the Manta Ray anchor it bent the two inch steel rod.



Fabricating a point on a three inch steel pipe. This pipe will be used to create a pilot hole for the Manta Ray anchor to be inserted into and then driven to the desired depth.

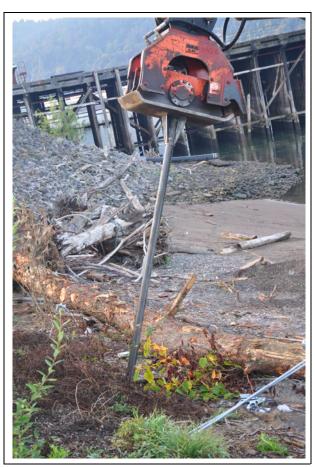


Driving pilot hole for the Manta Ray anchor.



All the large woody debris has now been delivered to the site.

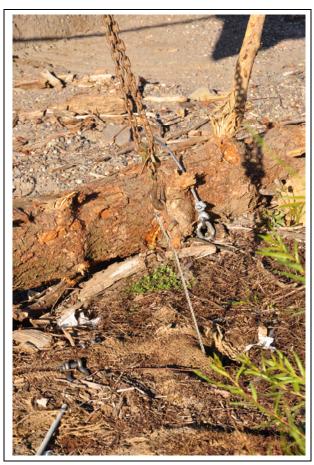
Job No.:	415-2328-007 Phase: 003C Task: RQ01	Report	No. <u>10</u>
Project:	Terminal 4 Wheeler Bay Shore Line Restoration		
Owner:	Port of Portland	Page	1 of 1
Contractor:	Northwest Earthmovers Inc.	Date:	October 18, 2010
Contractor's F	Rep./Title: Jeff Hargens, Project Manager	Day:	Monday
Weather A.M.	.: 41 °F P.M.: 65 °F Site Conditions: (Good) (Fair) (P	oor)	Sunny, Dry, Slight Breeze
Location and	Type of Work: T4 Wheeler Bay Shore Line Restoration		
	Classification of Contractors, Men, and Equipment (include condition of equipme	•	
Carl Johnson		•	
Mike Madisor			
	nchor, Port Inspector 4-steel sheets		1 100
NEI drove all anchors for 5 steel cable, w	ress (include report of operations, materials received and condition, work start/s pilot holes for the anchors being placed from approximately $3+00$ to $7+00$. The of the large woody debris and installed the $3/4$ inch plain steel chain and fastene which is part of the anchor assembly, with a $3/4$ inch plain shackle. NEI bent the 2 nechors into the ground so a new steel rod will be fabricate for tomorrow.	n they w	ent back and drove the ain to the ½ inch stainless
Work Comple	ted:		
Discussions	vith Contractor (include orders given and received):		
DISCUSSIONS V	with Contractor (include orders given and received).		
Any Cause fo	r Dispute, Change Orders, or Delays, and Reasons:		
Extra Work in	Progress-Description (include Extra Work Report Form):		
Items for Office	ce Action:		
Visitors:			
John Durst, P	OP; Marcel Hermans, POP; Jeff Hargens, NEI; Kelly Madalinski, POP;		
Notes:			
	ruction meeting at 1115. Attending were John Durst, POP; Kelly Madalinski, PO ohone where Ken Fellows, PMX; John Verduin, Anchor.	OP; Tim	Stone, Anchor; Ingmar Saul,
		Ingm	ar Saul, R.G.
		5	Signature



Driving pilot holes for the Manta Ray anchors.



Driving the Manta Ray anchor though the pilot hole and into the ground.



Setting the Manta Ray anchor by pulling on the stainless steel cable until.

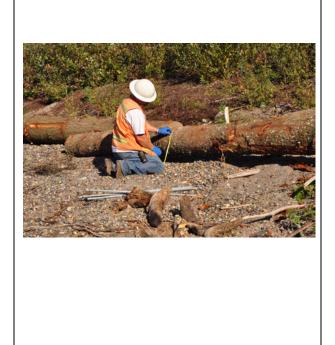


Assembling the $\frac{3}{4}$ inch chain and shackle and fastening the stainless steel cable around the shackle.

Job No.:	415-2328-007 Phase: 003C Task: RQ01	Report	No. <u>11</u>	
Project:	Terminal 4 Wheeler Bay Shore Line Restoration	_		
Owner:	Port of Portland	Page	1 of	
Contractor:	Northwest Earthmovers Inc.	Date:	October 19, 2010	
Contractor's F	Rep./Title: Jeff Hargens, Project Manager	Day:	Tuesday	
Weather A.M.	: °F P.M.: °F Site Conditions: (Good) (Fair) (Poor)	Sunny, Dry,	
Location and	Type of Work: T4 Wheeler Bay Shore Line Restoration			
Carl Johnson, Mike Madison				
-	ess (include report of operations, materials received and condition, work start/ oric, staking, and stapling in place from approximately 0-10 to 2+25.	stop time	, and any unusual conditions):	
Work Completed: Completed placement and anchoring of large woody debris from approximately 3+60 to 7+00.				
Discussions with Contractor (include orders given and received):				
Any Cause for Dispute, Change Orders, or Delays, and Reasons:				
Extra Work in	Extra Work in Progress-Description (include Extra Work Report Form):			
Items for Office Action:				
Visitors:				
Rodger Ander	rson, POP; Jeff Hargens, NEI; Sheila McConnell, PMX;			
	nell, CIH, made a surprise site visit to check the health and safety procedures r will not be working at the site tomorrow. Contractor is waiting for the approva			
		Ingm	ar Saul, R.G.	
		5	Signature	



Continuing to drive Manta Ray anchors for large woody debris.



Measuring the large woody debris for accurate length of chain.



Connecting the length of chain to the Manta Ray anchor via the stainless steal cable.



Large woody debris anchored at the 15 foot elevation.



Rolling out the coir fabric and staking into place.



Completed placement of the coir fabric from approximately 0-10 to 2+25.

Job No.:415-2328-007Phase:003CTask:Project:Terminal 4 Wheeler Bay Shore Line Restoration	RQ01 Report No. 12
Owner: Port of Portland	Page 1 of 1
Contractor: Northwest Earthmovers Inc.	Date: October 21, 2010
Contractor's Rep./Title: Jeff Hargens, Project Manager	Day: Thursday
Weather A.M.: 50 °F P.M.: 60 °F Site Conditions:	(Good) (Fair) (Poor) Partly Sunny, Dry,
Location and Type of Work: T4 Wheeler Bay Shore Line Restoration	
Number and Classification of Contractors, Men, and Equipment (include cond	
	-NEI work truck
Mike Madison, NEI 1-CAT IT28G front loader	
Tim Stone, Anchor, Port Inspector 4-steel sheets	
Work in Progress (include report of operations, materials received and condit Driving pilot holes for the Manta Ray anchors starting at 0-10 to 1+00. Comp	
Work Completed: 2 truck and transfer loads of top soil were delivered for 50 yards. Completed coir fabric and topsoil repair from 3+50 to 7+00 at approximately to	he 16 foot elevation.
Discussions with Contractor (include orders given and received):	
Any Cause for Dispute, Change Orders, or Delays, and Reasons:	
Extra Work in Progress-Description (include Extra Work Report Form):	
Items for Office Action:	
Visitors:	
Jeff Hargens, NEI; John Howland, PMX; John Durst, POP; Philipp Bails, POF) ,
Notes:	
The contractor did not work on Wednesday 10/20.	
	Ingmar Saul, R.G.
	Signature



Delivery of top soil to the site.



Placement of top soil on existing scarp and coir fabric from approximately 0-10 to 1 2+25.



Placement of coir fabric and top soil to repair the damaged coir fabric from 3+50 to 7+00.



Driving pilot holes for Manta Ray anchors from 0-10 to 1+00.

Job No.:	415-2328-007 Phase: 003C Task: RQ01	Report	No. <u>13</u>	
Project:	Wheeler Bay Shoreline Stabilization Slope Repair			
Owner:	Port of Portland	Page	1 of1	
Contractor:	Northwest Earthmovers	Date:	October 22, 2010	
Contractor's F	Rep./Title: Jeff Hargens, Project Manager	Day:	Friday	
Weather A.M.	: 53 °F P.M.: 58 °F Site Conditions: (Good) (Fair) (P	oor)	Good	
Location and	Type of Work: Terminal 4, Wheeler Bay bank stabilization			
Number and (Classification of Contractors, Men, and Equipment (include condition of equipment	ent):		
	(NEI); Mike (NEI); Tim Stone (Anchor) 1 Hitachi 160 track hoe; 1 C		G front loader; 1 NEI support	
	truck			
147 =				
~	ess (include report of operations, materials received and condition, work start/s nsite at about 06:30; performed maintenance on track hoe; finished maintenanc	•	· · · · · · · · · · · · · · · · · · ·	
07:45; Installe	ed anchor bolts, staked and stapled fabric cover along down-slope side, and pla road; completed work for the day at approximately 15:45.			
or title access	Toda, completed work for the day at approximately 15.45.			
Work Comple	ted:			
	lvancing anchor bolt pilot holes north of the access road; installed and set appross and steel staples along down-slope site of fabric cover (NEI will complete stal			
	ed and secured); positioned 5 logs and moved the rest for positioning on Monda		Staping after the large woody	
`	Discrepancies Noted: (Nonconformance Report #)			
Discussions with Contractor (include orders given and received):				
Any Course f	Dispute Change Orders or Delays and Bessens:			
Any Cause 10	r Dispute, Change Orders, or Delays, and Reasons:			
Extra Work in	Progress-Description (include Extra Work Report Form):			
Items for Office	e Action:			
Visitors: Roge	er Anderson (POP); Jeff Hargens (NEI)			
Notes:				
		hn Howl	and, R.G.	
		Signa	ature	



Driving Manta Ray anchors at approximately 0+00.



Placement of stakes into Coir fabric along 0+00 to 2+50.



Moving large woody debris in preparation for placement.



Placement of large woody debris along 0+00 to 2+50.

Job No.: 415-2328-007 Phase: 003C Task: RQ01	Report No. 14		
Project: Wheeler Bay Shoreline Stabilization Slope Repair			
Owner: Port of Portland	Page 1 of 1		
Contractor: Northwest Earthmovers	Date: October 25, 2010		
Contractor's Rep./Title: Jeff Hargens, Project Manager	Day: Monday		
Weather A.M.: 48	oor) Good		
Location and Type of Work: Terminal 4, Wheeler Bay bank stabilization			
Number and Classification of Contractors, Men, and Equipment (include condition of equipment	•		
	AT IT28G front loader; 1 NEI support		
Mike Roper/Jeremy Haines (NEI) truck John Casterly and 5-man crew (Casterly Landscaping) 1 landscapers support truc	k with horse trailer containing plants		
Commodition and a man crew (Casterly Landscaping)	k with horse trailer containing plants		
Work in Progress (include report of operations, materials received and condition, work start/s	-		
Began work at approximately 07:30; silt fence damaged over weekend due to heavy rain; continued driving wooden stakes into fabric; began chaining large woody debris to anchor bolts; landscaping crew arrived at about 10:30 and began planting at the south end of project; continued rip rapping; I left site at about 14:30.			
Work Completed:			
Repaired silt fence, completed driving wooden stakes through fabric at north end of project; chained woody debris to anchor cables at north end of project; landscaping crew began planting plants at south end of project; NEI completed rip rap along base of access road between top of bank and shoreline, and placed select fill material above top edge of rip rap.			
Discrepancies Noted: (Nonconformance Report #)			
Discussions with Contractor (include orders given and received):			
Any Cause for Dispute, Change Orders, or Delays, and Reasons:			
Extra Work in Progress-Description (include Extra Work Report Form):			
Items for Office Action:			
Visitors: Roger Anderson, Kelly Madalinski and Marcel Hermans (POP); Jeff Hargens (NEI)			
Notes:			
Attended Monday construction meeting.			
Jo	ohn Howland, R.G.		
	Signature		



Heavy rains brought runoff and sediment from the hillside down to the sediment fence.



Trail of runoff from the hillside.



Removing the excess sediment from next to the sediment fence.



Repaired and reinforced sediment fence for any future runoff.



Using a gas powered hand held auger to dig the holes for the plants.



Newly planted trees above the large woody debris.



Completing riprap from approximately 2+50 to 2+80.

Job No.:	415-2328-007 Phase: 003C Task: RQ01	Report	No. <u>15</u>
Project:	Terminal 4 Wheeler Bay Shore Line Restoration		_
Owner:	Port of Portland	Page	1 of1
Contractor:	Northwest Earthmovers Inc.	Date:	October 26, 2010
Contractor's F	Rep./Title: Jeff Hargens, Project Manager	Day:	Tuesday
Weather A.M.	: 52 °F P.M.: 59 °F Site Conditions: (Good) (Fair) (Po	oor)	Overcast, off & on drizzles, wet, muddy
Location and	Type of Work: T4 Wheeler Bay Shore Line Restoration		
Number and Classification of Contractors, Men, and Equipment (include condition of equipment): Carl Johnson, NEI 1-Hitachi 160 track hoe 1-NEI work truck Mike Madison, NEI 1-CAT IT28G front loader Casterly Landscaping - 6 man crew, 3 work trucks, 1 horse trailer Mike Roper, NEI Tim Stone, Anchor, Port Inspector 4-steel sheets			
Work in Progress (include report of operations, materials received and condition, work start/stop time, and any unusual conditions): Continuing to drive Manta Ray anchors, placing large woody debris, and chaining large woody debris to anchors. Landscapers are finishing planting all the trees from 0-10 to 2+50 and from 2+80 to 7+00. Placing salvaged driftwood downslope of anchored large woody debris from approximately 4+00 to 7+00.			
Work Comple 1 truck and tra	ted: ansfer loads of top soil were delivered for a total of 25 yards.		
Discussions with Contractor (include orders given and received):			
Any Cause fo	r Dispute, Change Orders, or Delays, and Reasons:		
Extra Work in Progress-Description (include Extra Work Report Form):			
Items for Office	e Action:		
Visitors:			
Jeff Hargens, NEI; Rodger Anderson, POP;			
Notes:			
<u> </u>		Ingma	ar Saul, R.G.
		S	ignature



Placing select fill and Coir fabric along the base of the access ramp.



Preparing Coir fabric for the planting of new trees.



Completed row of trees planted above the large woody debris.



Completed triangle section of large woody debris at approximately 0+30.



Chains anchoring the large woody debris on the triangle configuration.



Placement of salvaged driftwood downslope of anchored large woody debris from approximately 4+00 to 7+00.

Job No.:	415-2328-007 Phase: 003C Task: RQ01	Report	No. <u>16</u>	
Project:	Terminal 4 Wheeler Bay Shore Line Restoration			
Owner:	Port of Portland	Page	1 of 1	
Contractor:	Northwest Earthmovers Inc.	Date:	October 27, 2010	
Contractor's F	Rep./Title: Jeff Hargens, Project Manager	Day:	Wednesday	
Weather A.M.	: 52 °F P.M.: 62 °F Site Conditions: (Good) (Fair) (Po	oor)	Partly Sunny, Dry, afternoon wind	
Location and	Type of Work: T4 Wheeler Bay Shore Line Restoration			
Number and (Classification of Contractors, Men, and Equipment (include condition of equipme	nt):		
Carl Johnson				
Mike Madisor	•			
Mike Roper, N				
Work in Progi	ess (include report of operations, materials received and condition, work start/st	op time,	and any unusual conditions):	
Work Comple	ted:			
_	olls of Jute Mat arrived.			
Completed placement of habitat layer onto toe of newly installed riprap from approximately 0-10 to 2+80. Placement of salvaged driftwood at toe of riprap and downslope of anchored large woody debris, from approximately 0-10 to 7+00. Restored access ramp to original grade and added topsoil, coir fabric, jute mat, and sediment fencing.				
Discussions with Contractor (include orders given and received):				
Any Cause fo	Dispute, Change Orders, or Delays, and Reasons:			
Extra Work in	Progress-Description (include Extra Work Report Form):			
Items for Office	e Action:			
Visitors:				
Jeff Hargens,	NEI;			
Notes:				
		Inama	ar Saul, R.G.	
			ignature	



Removing sediment fencing.



Placing habitat layer at toe of newly placed riprap at approximately 0+80.



Removing track hoe from work area for the last time.



Placing Coir fabric on access ramp.



Installing sediment fence on access ramp above Coir fabric.



Placing Jute Mat on access ramp from elevation 20 feet to top of slope.



Finishing restoration to access ramp at top of slope.



Over view of work area from 0-10 to 7+00.

Job No.: 415-2328-007 Phase: 003C Task: RQ01	Report	No. <u>17</u>	
Project: Terminal 4 Wheeler Bay Shore Line Restoration			
Owner: Port of Portland	Page	1 of 1	
Contractor: Northwest Earthmovers Inc.	Date:	October 28, 2010	
Contractor's Rep./Title: Jeff Hargens, Project Manager	Day:	Thursday	
Weather A.M.: 52	oor)	Overcast, raining, cool, muddy,	
Location and Type of Work: T4 Wheeler Bay Shore Line Restoration			
Number and Classification of Contractors, Men, and Equipment (include condition of equipment): Carl Johnson, NEI 1-NEI work truck Mike Madison, NEI 1-CAT IT28G front loader Tim Stone, Anchor, Port Inspector Casterly Landscapering – 6 man crew, 3-vehicles			
Work in Progress (include report of operations, materials received and condition, work start/stop time, and any unusual conditions): The Hitachi track hoe was removed from the site and the 4 steel sheets were removed from the site on Tuesday. Cleaning up beach from litter and debris.			
Work Completed: 1 additional rolls of Jute Mat was delivered.			
2 loads of bark dust were delivered for a total of 50 cubic yards. The bark dust was applied for a levations of 15 and 20 feet, approximately, with a minimum depth of 4 inches.	rom 0-10	to 7+00 and between the	
Landscapers finished planting the remainder of the trees in the access ramp area.			
An additional 50 feet of chain was delivered to finish chaining the large woody debris to the anchors.			
Discussions with Contractor (include orders given and received):			
Any Cause for Dispute, Change Orders, or Delays, and Reasons:			
Extra Work in Progress-Description (include Extra Work Report Form):			
Items for Office Action:			
Visitors:			
Jeff Hargens, NEI; Ken Fellows, PMX; Kelly Madalinski; POP;			
Notes:			
Ken Fellows was on site to perform the final inspection for EPA.			
	Ingm	ar Saul, R.G.	
	5	Signature	



Landscapers preparing access ramp for planting trees.



Trees planted on the lower section of the access ramp.



Top section of access ramp planted with trees.



Bark dust being applied to existing and newly planted trees between 15 and 20 foot elevation.



Newly planted trees and applied bark dust on the access ramp.

	5-2328-007 Phase: 003C Task: RQ01 reminal 4 Wheeler Bay Shore Line Restoration	Report	No. <u>18</u>	
		Page	1 of 1	
		Date:	October 29, 2010	
Contractor's Rep.		Day:	Friday	
Weather A.M.:	45 °F P.M.: 55 °F Site Conditions: (Good) (Fair) (Po	•	Overcast, foggy, cool, muddy, wet	
Location and Type	e of Work: T4 Wheeler Bay Shore Line Restoration			
Number and Classification of Contractors, Men, and Equipment (include condition of equipment): Carl Johnson, NEI 1-NEI work truck 1-CAT IT28G front loader Tim Stone, Anchor, Port Inspector				
Work in Progress (include report of operations, materials received and condition, work start/stop time, and any unusual conditions): Delivery of 18 lbs of grass seed for hydro seeding the access ramp.				
Work Completed: Completed hydroseeding access ramp. The CAT IT28G front loader was removed from the site and all other equipment and supplies.				
Discussions with Contractor (include orders given and received):				
Any Cause for Dis	spute, Change Orders, or Delays, and Reasons:			
Extra Work in Progress-Description (include Extra Work Report Form):				
Items for Office A	ction:			
Visitors:				
Jeff Hargens, NEI; Kelly Madalinski; POP; Rodger Anderson, POP; Lyel Larsen, POP; Philip Hansen, NEI;				
Notes: The Port performed their final inspection of the job site with the contractor.				
		Ingma	ar Saul, R.G.	
		S	signature	



Application of hydroseed on access ramp.



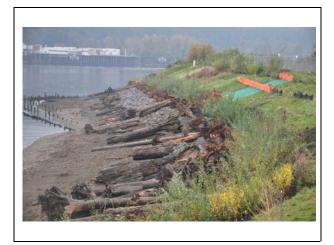
Overview of completed work area.



Close up of work area from 0+00 to 3+00, approximately.



Close up of work area from 2+50 to 6+00, approximately.



Parallel look at work area from 0+00 to 4+00, approximately.



Parallel look at work area from 3+00 to 7+00, approximately.



Staging area cleaned up and back bladed above work site.