




Meadowlark Blacktail Creek Williston, North Dakota		
Daily Report for April 10, 2015		
<u>Weather Overview</u>		
68° F High	24° F Low	<u>Conditions:</u> Mostly sunny.
<u>Activities Taken and Ongoing</u>		
Planning	<ul style="list-style-type: none"> - Conducted surface water sampling in accordance with the Surface Water Sampling and Analysis Plan from March 6, 2015. - Collected daily surface water at SW-400-series locations. - Collected groundwater samples from monitoring wells. - Steve Pelletier took take over as Ecological team lead. Ecological team conducted wildlife surveys along Blacktail Creek on L. Njos parcel – SCAT segments included: 186-214 (left bank), 200-214 (right bank), 144-168 (both banks), and D-0+00-D-4+00. The observed 19 dead fish and wildlife: 1 northern pike (with light oiling observed) and 18 crayfish (including 2 with light oiling, 4 with moderate oiling, and 1 with heavy oiling observed). Specimens were collected and stored in accordance with the protocol set forth in the Wildlife Spill Response Plan. - Continued tabulating and validating analytical data. - Continued preparation of daily field sampling, SCAT and operations maps. 	
Operations	<ul style="list-style-type: none"> - Installed wood mats on haul roads and access points for proposed Interceptor Trenches (ITs) on Njos property. - Installed temporary clay dam at mouth of channel, south of IT-027. - Extracted water from the SW-413 location to begin dewatering the channel in preparation for sump installation. - Increased daily water truck count from 6 to 8 during the day to facilitate dewatering of the channel on the Njos property. Kept 6 to continue hauling water from ITs during night operations. - Discontinued construction operations at the Njos property at 6:00 PM. - Evaluated IT chloride data for operational decisions. - Pumped from IT-001 through -003, IT-005, IT-010 through -024 and IT-026 through -028. Did not pump from IT-004 or IT-025. - Pumped water from Extraction Wells (EWs) -4 through -6. Did not pump from EW-1 through -3 or EW-7 and -8. - Collected relevant GPS data to update Operational maps. - Industrial Builders completed installation of partially driven sheets. Approximately 550' of wall has been completely installed from station 3+00 to station 8+48, and approximately 300' has been partially installed from station 0+00 to station 3+00. Driving became increasingly difficult following installation of gate section "D" near 4+00 and several sheets could not be driven 2' below ground surface and had to be torch-cut. - Removed accessible hydrocarbon-affected vegetation to 2" above ground surface, leaving roots intact. Completed work on left bank only in segments 152-164. Clean Harbors crews cut and collected, bagged and placed material in roll-off containers for T&D. - Clean Harbors used rakes and shovels to remove hydrocarbons in heavier impacted areas from around vegetation roots without damage to root zone. 	



	<ul style="list-style-type: none"> - Continued improving site roads as necessary. - Selected and priced materials for gravel roads in place of mats. - Maintained and replaced oil shark panels in Blacktail Creek. - Clean Harbors assisted SCAT with surveys to remove hydrocarbons encountered during the survey. - Strata graded and maintained roads at the Njos property. - Strata repositioned mats that were displaced by trucking. - Used pole nets to remove hydrocarbons collecting in containment boom. - Prepared to install additional mats and mobilize equipment to the Larry Njos property tomorrow. - Total volume pumped through 4/09 = 470,989 Barrels. - Solids disposed on 4/09 = 12 tons.
Logistics	<ul style="list-style-type: none"> - Total Staff Onsite: 19 [PM – 1, OPS – 6 (Gary, Tom, Brett, Nick, Jeff, James), Planning – 12 (1 admin, 11 Field Assessment, including 4 Sampling; 3 SCAT; 4 Biological)].
<u>Upcoming Activities and Action Items</u>	
Upcoming Activities	<ul style="list-style-type: none"> - Improve site roads. Perform street sweeping and clean track-out. - Improve site roads as necessary. - Perform street sweeping and clean track-out. - Continue cutting vegetation at the Larry Njos property to 2” above ground surface, leaving roots intact. Collect, bag and place material in roll-off containers for T&D. - Install oil shark panels and containment boom at necessary stationing along the creek. - Continue collecting relevant GPS data to update Operational maps. - Continue maintenance of containment boom. - Continue using rakes and shovels to remove hydrocarbons in heavier impacted areas from around vegetation roots without damage to root zone. - Continue extraction and disposal of water from IT locations. - Continue evaluation of chloride concentrations at IT locations. - Review SWPPP field conditions and make necessary changes based on site conditions. - Continue with road and mat maintenance on the west side of 85. - Continue maintenance of Njos road after truck hauling is completed for the day. - Continue maintenance and troubleshooting on pumps, piping, valves and hose at ITs and EWs. - Reconcile vacuum truck waste water tickets and daily totals. - Continue monitoring and recovering hydrocarbon based on SCAT recommendations. - Continue surface water, IT and groundwater sampling.
<u>SCAT Summaries</u>	
Staffing	<ul style="list-style-type: none"> - Three persons on-site. No Changes.
SCAT	<ul style="list-style-type: none"> - Participated in Stantec 07:30 general safety meeting. The 09:30 Operations daily activities meeting was cancelled

	<p>because no State or Federal personnel were on-site.</p> <ul style="list-style-type: none"> - One team concentrated on directing Operations as they began cutting vegetation and cleaning the Larry Njos property. At the time this report was prepared, the Operations team had completed segments 152+00 to 158+00 along the left bank, and began 160+00 along the left bank. - The other team completed a re-survey of Segments 56+00 to 66+00 along the left bank and 52+00 along the right bank. These are some of the heavily and moderately oiled segments that Operations worked on for almost a week until they were pulled off to work on the Larry Njos property. The oiling conditions in all but one of these segments decreased by at least one category, with two segments reducing by two categories (i.e., “Heavy” to “Light”).
Observations	- No additional clean-up observations or recommendations.
Upcoming	- Continue to direct Operations on the Larry Njos property. Conduct SCAT surveys beginning at 28+00 and running downriver along both sides to update oiling conditions in the area.
Photos	 <p>- Vegetated shoreline after vegetation cutting on Larry Njos Property</p>



- Stained and coated soils after vegetation cutting - Segment 52+00 along the right bank..