CONCEPTUAL SITE MODEL
FOR
FARWELL MILL OIL RECOVERY
SITE
LISBON, MAINE
ANDROSCOGGIN COUNTY

PREPARED FOR: MILLER INDUSTRIES, INC. LISBON FALLS, MAINE

MARCH 2009



TABLE OF CONTENTS

Beetion Ivo.	Title	Tage 110.
1.0 INTROI	DUCTION	1
2.0 SITE I.0	OCATION AND DESCRIPTION	1
	: Location	
2.2 Site	Description and History	3
	surface Oil Recovery System	
2.0 540	Surface our receivery Bystein	
3.0 CONTA	MINANT AND SOURCE CHARACTERIZATION	8
	ntification of Known Contaminants	
	ntification and Characterization of the Source of Contaminants	
4.0 ESTABI	LISHMENT OF BACKGROUND AREAS OF CONTAMINANTS	10
	ATION OF POTENTIAL MIGRATION PATHWAYS	
	undwater Pathway	
	face Water and Sediment Pathway	
	Pathway	
5.4 Soi	Contact Pathway	15
	FICATION AND CHARACTERIZATION OF POTENTIAL	
	NMENTAL RECEPTORS	
	nan Receptors	
6.2 Ecc	logical Receptors	16
7 A DETER	MINATION OF THE LIMITS OF THE SITE	17
1.0 DETER	WIINATION OF THE DIWITTO OF THE SITE	1/

LIST OF FIGURES

Figure No.	Title	Page No.
2 SITE PLAN 3 SYSTEM CROS	N MAP S-SECTION - SCHEMATIC (1990-2007) S-SECTION - SCHEMATIC (2007-CURRENT)	4 12
	LIST OF APPENDICES	
APPENDIX A	SME Investigation Summaries 2007 – 2008	
APPENDIX B	MEDEP Solid Waste Order – Closing Plan, Transfer of Licer Amendment, 1992	nse and
APPENDIX C	Property Deed Restriction and Associated MEDEP Cor 1994	respondences,
APPENDIX D	MEDEP Spill Report Information for Removal of Soil C along Sabattus Riverbed, August 1991	ontaining Oil

CONCEPTUAL SITE MODEL FARWELL MILL OIL RECOVERY SITE LISBON, MAINE

1.0 INTRODUCTION

On behalf of Miller Industries, Inc, Sevee & Maher Engineers, Inc. (SME) has developed this Conceptual Site Model (CSM) for the Farwell Mill Oil Recovery Site (hereinafter referred to as the "site") located on the Farwell Mill property in Lisbon, Maine. The purpose of the CSM is to provide an understanding of how contaminants enter the site system, how they are transported within the site system, and where routes of exposure to organisms and humans potentially occur, with the goal that this document can be reviewed and used for decision making.

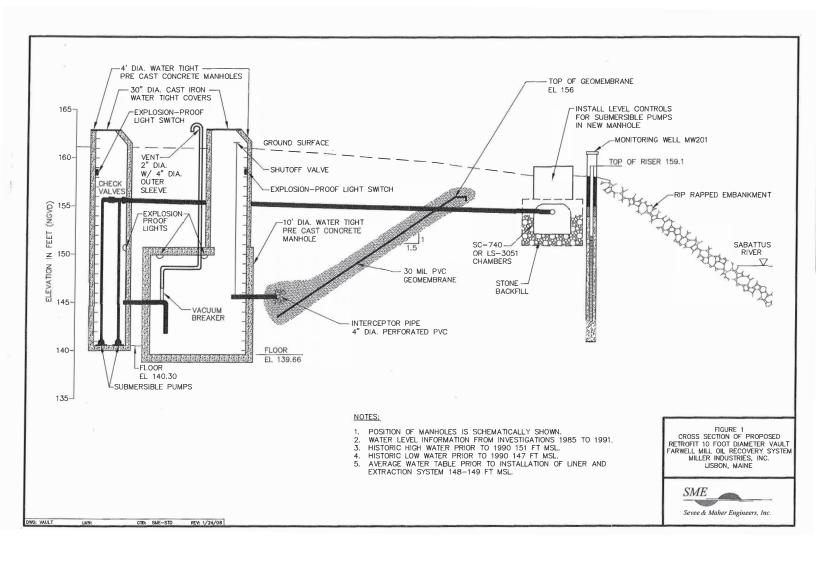
This CSM has been structured to follow the American Society of Testing Material's (ASTM) Standard Guide for Developing Conceptual Site Models for Contaminated Sites (E 1689-95, Reapproved 2008); with a focus on the site from the time of the site's subsurface oil recovery system design and construction by Haley & Aldrich, Inc. (H&A) in 1990, to after the systems shut down in 2007. SME reviewed the Remedial Response Implementation Plan (H&A, 1990), As-Built Configuration and Monitoring Report (H&A, 1990), Operation and Maintenance Plan (H&A, 1991), and selected other historic correspondences for the subsurface oil recovery system in preparing this CSM.

2.0 SITE LOCATION AND DESCRIPTION

2.1 Site Location

The Farwell Mill property occupies approximately 4.5 acres southeast of the intersection of the Lisbon Road (Route 196) and Grandview Street in the Town of Lisbon, Androscoggin County, Maine. Figure 1 illustrates the property setting on a portion of USGS 7.5-minute topographic

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Sevee & Maher Engineers, Inc.
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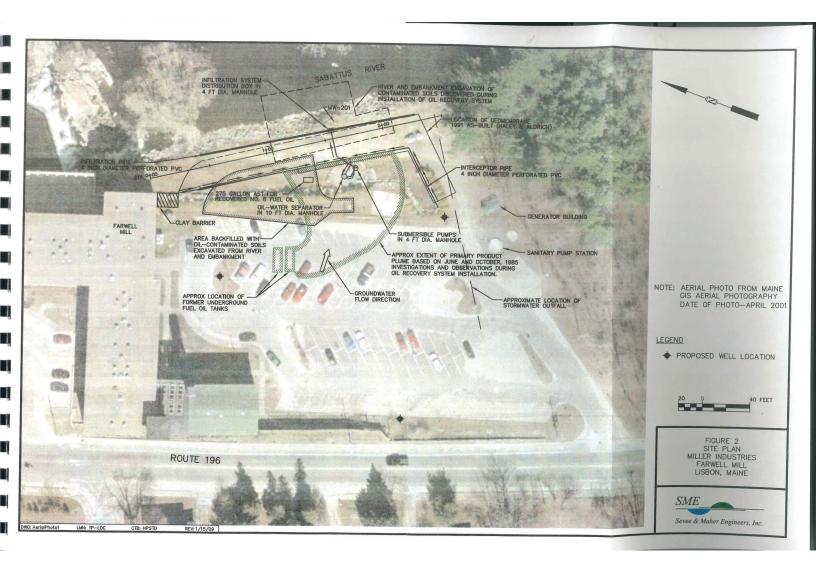


quadrangle map (USGS, 1979). The site is positioned on the southeast side of the Farwell Mill property and is bordered to the north by the Farwell Mill building, to the south by an undeveloped lot, to the east by the Sabattus River, and to the west by paved parking lots and Route 196. The site topography slopes gently towards the Sabattus River to the east. An aerial photograph (dated April 2001), provided as Figure 2, identifies site surroundings and features.

2.2 Site Description and History

Investigation activities began at the Farwell Mill property in 1987, when the 4.5-acre property was under renovations to be converted from a mill to residential units. A number of contamination sources were identified for the property and an administrative order of consent (AOC, 1987) was issued by the Maine Department of Environmental Protection (MEDEP), followed by remediation actions as a result of the investigation. These remediation actions included removal and disposal of containers in the mill, floor waste in the mill, asbestos within the mill, electrical transformers with Polychlorinated Biphenyls (PCBs), six underground storage tanks (USTs), and an area of improper stabilization along the Sabattus River.

Of the six USTs that were removed in 1987, four contained gasoline, and the remaining two USTs contained No. 6 oil. One of the two USTs (a buried railcar) containing No. 6 oil leaked significantly into the surrounding soils, with oil migrating and discharging into the Sabattus River. The USTs containing No. 6 oil were located in the southern parking lot area as shown on Figure 2. Approximately 100 cubic yards of oil-contaminated soil were removed from the site with the tank excavation and removal in 1987; however some residual oil entrapped within the interstices of the undisturbed soil material was not removed. To comply with the conditions of the 1987 AOC and address the remaining residual oil, a design for a subsurface oil recovery system was submitted to the MEDEP in 1988 by Acheron, Inc. The design was revised and finalized by H&A and approved by MEDEP in 1990. The subsurface oil recovery system was constructed during the fall of 1990 and started on December 17, 1990 to contain, collect, and



remove the residual petroleum contamination in the groundwater at the site. Details of the site's subsurface oil recovery system are provided in Subsection 2.3.

The system that was designed and implemented in 1990 performed fairly well for the first few years of operation, with historic oil recovery rates dropping after 1998. Table 1 provides a summary of historic oil collection volumes.

TABLE 1
HISTORIC VOLUMES OF NO. 6 FUEL OIL RECOVERED

YEAR	GALLONS
1991	2,008
1992	1,912
1993	1,760
1994	1,600
1995	1,206
1996	733
1997	624
1998	300
1999	276
2000	311
2001	235
2002	219
2003	200
2004	358
2005	228
2006	438.5
2007	204.5
TOTAL RECOVERED	12,733

In April of 2007, the system was shut down with MEDEP approval. The shutdown occurred because a sheen was observed on the Sabattus River due to the oil recovery system malfunctioning, causing a direct discharge of oil-contaminated water. Miller Industries subsequently contacted the MEDEP and initiated a series of investigations and evaluations to determine which portions of the system were malfunctioning, why, and what should be done to continue to comply with the AOC. The investigations and evaluations of the system completed by SME in 2007 through 2008 concluded that the oil recovery system is no longer functioning as intended, that the oil recovery and groundwater infiltration systems would need significant retrofit, and that even with the retrofits, there appears to be little potential to recover the remaining residual free No. 6 oil (Appendix A).

2.3 Subsurface Oil Recovery System

The subsurface oil recovery system constructed in 1990 was designed to cut off and intercept oil migrating through the subsurface soils toward the Sabattus River on the groundwater table.

From 1990 to 2007, groundwater and No. 6 oil were collected in a 320-foot long interceptor system consisting of horizontal perforated collection pipe (4-inch PVC) placed below the water table and oriented perpendicular to the groundwater path/oil flow pathway. The collection pipe is installed in a sand and crushed stone-lined trench that is lined on the downgradient wall with an impermeable, oil resistant synthetic geomembrane (30-mil PVC). The intent of the geomembrane is to act as a flow barrier to prevent migration of groundwater and oil past the collection pipe to the river. During operation, groundwater and oil collected in the collection pipe would flow by gravity to an oil/water separator located within a 10-foot diameter manhole. Oil which collected in the top of the oil/water separator was periodically pumped off and disposed of. Water from the oil/water separator was piped to a 4-foot diameter manhole and pumped to an infiltration gallery located downgradient of the impermeable geomembrane. The infiltration gallery consists of a distribution box attached to approximately 180 feet of 4-inch perforated PVC pipe buried beneath the constructed riprap-lined embankment of the Sabattus River. A monitoring well (MW-201) is located downgradient of the infiltration gallery to evaluate groundwater quality.

The following construction details for the system are important to note (Ref. H&A, As-built Configuration and Monitoring of Oil Recovery System, 1990):

 Bedrock was encountered in the interceptor trench excavation from Sta. 0+00 to Sta. 0+30 at El. 145.5 ft. MSL. Attachment of the PVC geomembrane to the Farwell Mill building was not possible, so a compacted clay barrier was installed from the southeast corner of the Farwell Mill Building southward to

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approximately Sta. 0+15. The clay barrier was built up to a maximum elevation of approximately El. 160 ft. MSL. The geomembrane was embedded within the clay barrier from approximately Sta. 0+10 to Sta. 0+15. Sealing of the geomembrane within the clay barrier was accomplished by excavating one-half of the width of the barrier for approximately 5 ft., hanging the geomembrane edge along the vertical cut face, and then backfilling behind the geomembrane with compacted clay. The location of the clay barrier on the north side of the recovery system is shown on Figure 2.

- During interceptor trench excavation, oil contaminated soils were noted at depths down to El. 144 ft. MSL at approximately Sta. 0+50. To minimize the possibility of oil flowing under the geomembrane, the elevation of the geomembrane bottom was lowered to El. 143 ft. MSL from approximately Sta. 0+35 to Sta. 1+15.
- Between Sta. 1+15 and the interceptor trench "angle point" at approximately Sta.
 2+10, the geomembrane bottom was placed at El. 139 and keyed into the naturally deposited gray silty clay encountered at approximately El. 140 in response to oil contamination observed on top of the clay stratum.
- No significant oil contamination was noted during interceptor trench excavation from the angle point to the south end of the trench, and the geomembrane bottom was placed at approximately El. 144 from the angle point to the south end of the trench.

To prevent oil from passing below the collection pipe, the invert elevation of the collection pipe (which varies from El. 146.6 to El. 145.3) was placed below the anticipated year-to-year low water table (El. 147), and approximately 3 ft. below normal water table levels of the site. Additionally, the geomembrane was keyed into the native marine clay as noted above. The top of the geomembrane is anchored approximately at El. 156 (2.5 to 3 feet below the current ground surface).

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March 16, 2002

3.0 CONTAMINANT AND SOURCE CHARACTERIZATION

3.1 Identification of Known Contaminants

Prior investigations and removal activities (test pits and removal excavations) at the site completed in the 1980s have documented evidence that the known contaminant at the site is No. 6 oil. No. 6 oil (also referred to as "Bunker C") is a dense, high-viscosity fuel oil produced by blending heavy residual oils with a lighter oil (often No. 2 fuel oil), and is used mostly as a boiler fuel in commercial and industrial heating. It requires preheating for mobility in most systems and the specific gravity of a particular No. 6 oil can vary from 0.95 to greater than 1.03. Thus, spilled No. 6 oil can float, suspend, or sink in the water column. At the Farwell Mill Site, observations during SME's 2007 investigation showed the No. 6 fuel oil has a specific gravity of approximately •9.98, based on water/oil collected from the interceptor trench inlet to the oil-water separator. Characteristically, No. 6 oil has very low volatility/evaporation characteristics, low solubility in water, and is slow to biodegrade or migrate in soils (Ref. NOAA Fact sheet – No. 6 fuel oil).

In addition to the presence of No. 6 fuel oil, Solid Waste including vinyl and asbestos tiles, and masonry was historically disposed of in the general vicinity of the site. Observations of the solid waste were noted during installation of the oil recovery system in 1990. The areas of solid waste disposal were capped by installation of the parking lot in accordance with an administrative solid waste order (See Appendix B) and a deed restriction was recorded for the property (See Appendix C). Also, residuals from the four gasoline USTs removed in 1987 may be present in the immediate vicinity of the ASTs, but no historic documentation identifies issues related to releases from these ASTs.

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3.2 Identification and Characterization of the Source of Contaminants

As noted in Subsection 2.2, the source of the No. 6 oil contamination was from one of two former USTs located in the southern parking lot. An estimated 7,000 gallons of No. 6 oil was released from the leaking USTs sometime between the time when they were installed in the 1950's or 1960's and 1987, when the tank were removed (Ref. Miller Industries and H&A). Historical oil seeps along the Sabattus riverbank indicated migration of the No. 6 oil over a distance of about 120 feet. The horizontal boundaries of the product plume in the 1980's were defined based on test trenches (E.C. Jordan Co., 1985), which identified a primary plume traveling from the source in an east-southeast direction to the Sabattus River (see Figure 2).

During installation of the oil recovery system in 1990, an extensive plume of heavy oil was observed within the Sabattus riverbed. The plume was excavated from the riverbed back toward the location of the former leaking USTs. Approximately 1,500 cubic yards of No. 6 oil-containing sediments from excavation of the Sabattus riverbed and embankment were backfilled in "lifts" just upgradient of the system's geomembrane barrier in the area shown on Figure 2. Each lift of oily soil was separated by clean sand to expedite the flow of oil into the collection pipe, and then into the system's oil-water separator. (Ref. H&A, As-built Configuration and Monitoring of Oil Recovery System, November 7 through 9, 1990). A three-foot thick sand cover was placed over the entire area backfilled with contaminated soils (See Figure 2 for backfill area).

During the 1990 excavation of contaminated oil from the riverbed, some contaminated soils were inaccessible and subsequently left in place. It was noted by MEDEP personnel present on-site during the removal that not all of the oil contamination was removed because the water level fluctuations and difficulties of heavy equipment working in and near the river made it impossible to excavate all of the oil from the riverbed (Ref. MEDEP, Final Site Inspection Prioritization Report, October 25, 1995 and August 29, 1991 memorandum). A copy of the MEDEP spill

report for the oil within the Sabattus Riverbed is provided in Appendix D. The extent and quantity of No. 6 oil remaining in the Sabattus riverbed following the 1990 removal is unknown.

From construction in 1990 until the system was shut down in 2007, the subsurface oil recovery system recovered approximately 12,733 gallons of oil (Appendix A).

Test pitting investigations of the infiltration trench were completed by SME following the shut down in 2007. The coarse backfill under the infiltration trench contained visible No. 6 staining and concentrations of DRO above MEDEP Baseline 2 standards of 50 to 100 mg/kg. Observations of the fine silty sand under the coarse backfill did not contain any visible staining of No. 6 suggesting that the No. 6 fuel oil in the coarse backfill is not mobile and was not the cause of the sheen in the River on April 25, 2007 (Ref. Ref. SME, Revised Recommendations to Address Oil Recovery System Issues Memorandum, August 5, 2008)

4.0 ESTABLISHMENT OF BACKGROUND AREAS OF CONTAMINANTS

No. 6 oil is not a natural occurrence in the environment or at the site. Establishment of background concentrations of contaminants is not applicable to this CSM.

5.0 DELINEATION OF POTENTIAL MIGRATION PATHWAYS

5.1 Groundwater Pathway

<u>Hydrogeology</u>. Surficial geology underlying the area is comprised of Presumpscot Formation deposits. Deposits of glacial till, sand, gravel, and marine clay have also been mapped within a one-mile radius of the property. The shallow aquifer at the site is composed of glacial outwash sand overlain by miscellaneous fill that thickens eastward towards the Sabattus River. Soil permeability of this layer was estimated to be 8x10⁻³ cm/sec, based on sieve analysis of test pits completed (H&A, 1990). The aquifer is locally underlain by marine clays that constitute a

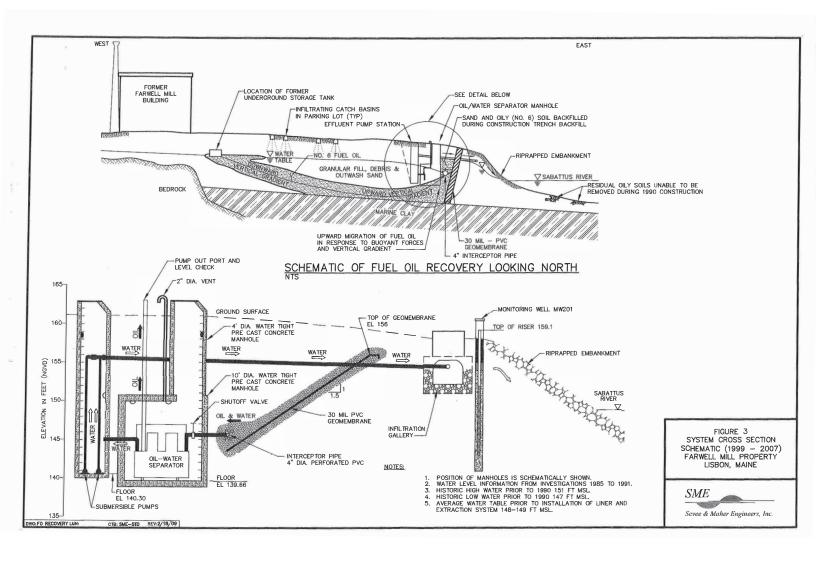
vertical groundwater flow barrier (Prescott, 1968). Bedrock outcrops in the Sabattus River east of the site were encountered at depths less than 10 feet below ground surface near the mill building (E.C. Jordan Co., 1985).

Groundwater flows east-southeast from the site toward the Sabattus River. Upgradient from the river, the shallow aquifer is likely recharged by infiltration of precipitation through the surficial fill materials. Infiltrating eatch basins in the parking lot of the site provide additional recharge. The catch basins have an overflow that connects to a stormwater outfall on the south edge of the site. Groundwater recharge zones are characterized by downward vertical flow gradients. The Sabattus River is likely a groundwater discharge zone characterized by upward vertical flow gradients. Discharge of groundwater to the river is evident by historic seepage of No. 6 oil into the river bed.

Water levels in the Sabattus River have historically fluctuated between El. 145 and El. 152. Water levels in the river are controlled, in part, by flood gates in dams up river from the site. Groundwater levels at the site typically range from about 1 to 3 feet higher in elevation than the river.

System Groundwater Model. During the subsurface oil recovery system operations from 1990 until 2007, the groundwater flow rate through the system (from the effluent discharge of the oilwater separator) ranged from 20 gallons per minute (gpm) at the start up of the system to approximately 11 gpm during 2006 and 2007. The direction of flow appears to be controlled by groundwater flow and the topography of the bedrock. The presence of the 30-mil PVC geomembrane prevents oil migration to the Sabattus River to the east and the presence of a native marine clay base or a bedrock base prevents oil migration vertically. Annual sampling and testing results for DRO from the downgradient groundwater monitoring well (MW-201) during the system's operation from 1991 through 2007 were well below the MEDEP limit of 15 ppm. Figure 3 provides a cross-section schematic of the site hydrogeology and the subsurface oil recovery system in operation from 1990 until 2007.

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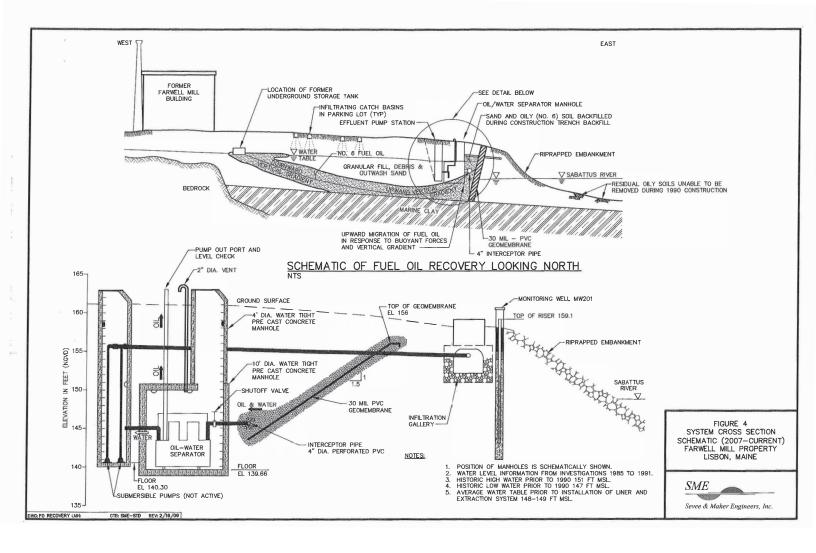


From the time of the shutdown in 2007, no groundwater has flowed from the effluent discharge of the oil-water separator. As described above, the presence of the 30-mil PVC geomembrane and the presence of native marine clays and bedrock base contains to limit the passage of oil migration laterally and vertically. Although groundwater levels fluctuate with river levels and precipitation, the water table measured behind the geomembrane (within the oil recovery structures) has remained more than two feet lower than the top of the geomembrane (El. 156). Annual sampling and testing results from DRO of the downgradient groundwater monitoring well (MW-201) since the shutdown in 2007 have ranged from 0.55 ppm to 2.2 ppm which are within historic ranges and well below the MEDEP limit of 15 ppm. Figure 4 provides a cross section schematic of the site hydrogeology and the subsurface oil recovery system from the shut down in 2007 to the present.

The close proximity of the Sabattus River as a groundwater discharge zone suggests that any downgradient groundwater exposure pathways are insignificant. If the No. 6 fuel oil migrates around the PVC liner, if infiltrating surface water causes groundwater to overtop the liner, if there are perforations through the liner, or if the clay barrier/geomembrane interface is not intact, No. 6 may potentially be transported to the Sabattus River, causing a surface water and/or sediment exposure pathway. As evidenced by the historic sampling of MW-201, these pathways are likely not active.

5.2 Surface Water and Sediment Pathway

The Sabattus River forms the property's eastern boundary. Topography on-site is generally level, except for the easternmost portion, which slopes toward the river. The western portion of the site is paved with a stormwater collection system consisting of a series of catch basin structures that allow surface water to infiltrate to the subsurface to promote flushing through the contaminated soils to the interceptor trench. East of the parking lot, stormwater surface runoff flows overland through gravel and grassed areas where it discharges to the Sabattus River. The probable point of entry from the eastern runoff into the Sabattus spans the eastern site boundary.



The vegetated surface soils that are exposed on the site consist of clean fill soils placed and graded during the 1990 construction, which have no evidence of oil contamination.

Because it is known that sediments contaminated with No. 6 oil remain in the Sabattus riverbed (see Subsection 3.1), there is a surface water and sediment pathway for No. 6 oil in the Sabattus River. Sheens and oil product droplets having historically been observed rising to the surface of the river from the riverbed and carried downstream with the current, but these are likely not a result of contamination present upgradient of the PVC liner.

5.3 Air Pathway

The No. 6 oil contamination is buried several feet below surface grade and effectively prevented from reaching the air pathway. The site is also covered by vegetation or asphalt pavement, which can act as a cap and prevent dust from becoming airbome. Based on the low-volatility characteristics of No. 6 oil and the items mentioned above, there is no indication that vapor or dust contaminated with No. 6 oil can enter the air pathway.

5.4 Soil Contact Pathway

Although people are known to live and work in the adjacent Farwell Mill Building and access to the site is not restricted, the contaminant source areas have been removed, and remaining contamination exist several feet below surface grade. The vegetated surface soils that are exposed on the site consist of clean fill soils placed (3 feet thick) and graded during the 1990 construction, which have no evidence of oil contamination. No evidence of burrowing animals have been identified on the site during inspections and site visits completed by SME or Miller Industries. There is no indication that direct contact with soils containing No. 6 oil by humans or animals is occurring at the site. In addition, a deed restriction prohibiting excavation has been filed with the Androscoggin County Registry of Deeds for the property (See Appendix C).

6.0 IDENTIFICATION AND CHARACTERIZATION OF POTENTIAL ENVIRONMENTAL RECEPTORS

The following evaluation of potential environmental receptors reflects the current site conditions, which identified that the only exposure pathways are the surface water and sediments from the residual No. 6 fuel oil in the Sabattus Riverbed and any No. 6 that might reach the Sabattus River by either overtopping the PVC liner or migrating around the PVC liner. It should be noted the current site conditions reflect a non-pumping condition.

6.1 Human Receptors

Human receptors are exposed if No. 6 oil reaches the ground surface, or the ambient environment. The system is buried several feet below surface, and unauthorized access to the oil recovery structures is prevented by the use of locks. In addition, the deed restriction at the site limits human contact through excavation.

Although people are known to live and work in the adjacent Farwell Mill Building, the surficial aquifer is not used as a source of drinking water by the residents, and the groundwater flow is toward the east-southeast, away from the building. There is no evidence of any threat to human recentors

6.2 Ecological Receptors

Ecological receptors are exposed by No. 6 oil reaching the Sabattus River from the contaminated riverbed sediments and include potential for sheens and oil product in the river, oil coating vegetation, or affecting aquatic species through oil coating or through ingestion. The Sabattus River and the downstream Androscoggin River are designated high value fisheries by the Maine Department of Inland Fisheries and Wildlife. No federally listed or proposed threatened or

endangered species are known to inhabit the site; however, within 15 miles of the site, the peregrine falcon are federally listed or proposed threatened or endangered species.

7.0 DETERMINATION OF THE LIMITS OF THE SITE

Because it is known that sediments contaminated with No. 6 oil remain in the Sabattus riverbed (see Subsection 3.1), there is a surface water and sediment pathway for No. 6 oil in the Sabattus River. Sheens and oil product droplets having historically been observed rising to the surface of the river from the riverbed. The extent or quantity of No. 6 oil remaining in the Sabattus River bed following the 1990 partial removal is unknown.

Groundwater flows have the potential to pass by the membrane barrier to the Sabattus River by the following means:

- Through holes or penetrations in the geomembrane;
- Through the clay barrier or clay barrier/geomembrane interface along the north end of the system;
- Over the geomembrane barrier;
- Around the geomembrane to the south.

Historic monitoring of MW-201 suggests these pathways are not active.

Additionally, No. 6 fuel oil has limited potential to be mobilized to the Sabattus River through these pathways, because it is likely that most of the mobile No. 6 fuel oil has been recovered. Long-term monitoring to ensure the pathways do not become active would be prudent.

REFERENCES

H&A, 1990. As-Built Configuration and Monitoring Report.

MEDEP, 1991. Field Activities Memorandum for 8/15 & 16/91, August 29, 1991.

MEDEP, 1992. Solid Waste Order - Closing Plan, Transfer of License and Amendment

MEDEP, 1995. Final Site Inspection Prioritization Report, October 25, 1995.

Miller Industries. Historic Volumes Recovery Records, 1991-2007

NOAA Fact sheet - No. 6 fuel oil.

SME, 2008. Revised Recommendations to Address Oil Recovery System Issues Memorandum, August 5, 2008.

APPENDIX A SME INVESTIGATION SUMMARIES 2007 – 2008



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TO:

David Robinson, Miller Industries

FROM:

Kristie Rabasca and Guy Cote

Larry Nadeau, Miller Industries Kathy Howatt, Maine DEP

Harrison Bispham, Maine DEP

DATE: June 25, 2007

SUMMARY OF FINDINGS AND RECOMMENDATIONS SUBJECT:

FROM MAY 22, 2007 TEST PITTING

FARWELL MILL OIL RECOVERY SYSTEM, LISBON MAINE

On May 22, 2007 Sevee & Maher Engineers, Inc. (SME) performed test pitting along the infiltration trench of the Farwell Mill Oil Recovery System to evaluate the condition of the groundwater infiltration portion of the Oil Recovery System. The test pitting was recommended by SME in a May 14, 2007 memorandum to Miller Industries to assist in determining the cause of an overflow at the distribution box on April 27, 2007 and a seep of oil that was observed on the River on the same date. The May 14, 2007 memorandum provides project background information including a description of the Oil Recovery System. This memorandum provides a summary of the test pitting activities, findings and our recommendations.

SUMMARY OF ACTIVITIES

SME performed three test pits as shown in Figure I (Attachment I). Each test pit was excavated to approximately 5 to 7 feet below ground surface. Kathy Howatt and Harrison Bispham of Maine Department of Environmental Protection (MEDEP) were on site to observe the test pitting, and Miller Industries personnel (Larry Nadeau and Dutch Ducharme) were present to assist. Test pitting was completed by Randy Tibbets Aggregate of Monmouth, Maine. SME test pit logs are included as Attachment 2 to this memorandum.

Page 1 of 3

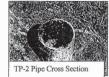
SUMMARY OF FINDINGS

All three test pits (designated as TP-1, TP-2 and TP-3) showed the presence of No. 6 fuel oil in the coarse backfill material under the 4-inch perforated PVC infiltration pipe. Within all three test pits, No. 6 fuel oil was not observed in the natural soil (a silty fine sand) under the coarse backfill, adjacent to the coarse backfill, or in the fine sand above the coarse backfill. Although the coarse backfill was visibly stained with No. 6 fuel oil, it was loose and appeared to be porous.

A sample of the coarse backfill from TP-3 was collected for analysis to determine Diesel Range Organic (DRO) concentration (MEDEP Method 4.1.25). DRO was detected at 6,900 milligrams per kilogram (mg/kg). The analytical results are included as Attachment 3.

Within each test pit, a cross section of infiltration pipe was cut out for inspection, and the remaining pipe was repaired with a coupling. The pipe on the west side of the distribution box appeared to be Schedule 35 PVC, and the pipe on the east side of the distribution box appeared to be Schedule 40 PVC. Both pipes contained circular ½-inch diameter perforations on the bottom of the pipe spaced approximately 6 inches apart. The cross section of pipe extracted from TP-1 was completely filled with silty sand. The cross sections of pipe from TP-2 and TP-3 were clear (no silt, or sand were present), and the ½-inch perforations on the bottom of the pipe were open. Both sections from TP-2 and TP-3 showed evidence of No. 6 fuel oil and some orange (presumably iron) deposits on the interior of the pipe. Photos of the pipe cross sections from TP-1 and TP-2 are shown below:





RECOMMENDATIONS

Although the concentration detected in the coarse aggregate backfill exceeds the MEDEP Baseline 2 standard for DRO (50 to 100~mg/kg), the observations of the soils surrounding the coarse backfill suggest the No. 6 fuel oil in the coarse backfill is not mobile, and was not the cause of the sheen on the River on April 27, 2007. More likely, the cause of the sheen on the river was the No. 6 fuel oil that was pumped from the sump into the distribution box in combination with the high water levels, causing an overflow at the distribution box.

Z:\Docs\M\20070625.dec June 25, 2007 Page 2 of 3 Based on the observations during test pitting, SME recommends the following be conducted:

- Because the western portion of the infiltration pipe is filled with silty sand, hire an environmental contractor to clean the interior of the infiltration trench piping (using a jetting tool) and the interior of the distribution box.
- 2. After the infiltration system is cleaned, conduct a clean water test of the infiltration system to determine if future operations would cause overflow of the distribution box to the Sabattus River. This test would consist of discharging approximately 300 gallons of clean water into the distribution box at a rate similar to the rate the sunnp pump's discharge rate (10 to 15 gpm), and observing the on-site monitoring well and the banks of the river to see if any seeps break out through the rip rap.

ADDITIONAL ACTIVITIES PLANNED

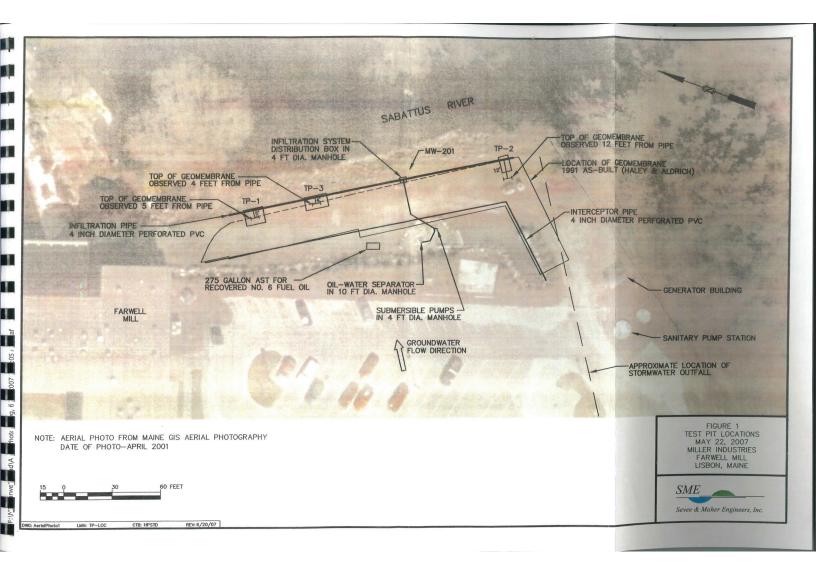
A cleaning and inspection of the oil/water separator, tanks, and discharge sump is scheduled to occur on Monday June 25, 2007. This cleaning and inspection will be used to determine why No. 6 fuel oil was discharged to the infiltration trench.

We will attempt to conduct the jetting and clean water test after the cleaning if time and equipment permit. Should you have any questions or comments regarding the test pitting program findings or recommendations, please call us at 207.829.5016.

Attachments:

Attachment 1 – Figure 1 Attachment 2 - Test Pit logs Attachment 3 – DRO Analysis

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ROJECT:			TEST P	IT LOG			TEST PIT NO.:
FARWELL MILL OIL RECOVERY SYSTEM EVALUATION LISBON, MAINE CONTRACTOR:					LISBON, MAINE	DATE: 22-May-07	
IRFACE SI	IZE (FT):	EGATE (RT/	A), MONMOUTH, MAINE COMPLETION DEPTH (FT):	GROUND EL. (FT):	E	BACKHOE & SHOVEL JNDWATER DEPTH (FT):	JOB NO.: 07078.00
	2 L x 10 W		6.6	NOT SURVEYED		NOT ENCOUNTERED	WCM
DEPTH (FT)	SAMPLE NO.	GRAPHIC LOG	MATERIAL I AND CLAS	DESCRIPTION SSIFICATION	WATER	REMARKS, I PHC	LAB TEST RESULTS, TOGRAPHS
2			Brown silty sand with	n pieces of bricks and metal (EXCAVATED SOIL FILL)		Encountered 30 mil ged 3 feet below ground su southwest from the PV	omembrane liner at a depth of face, and offset about 5 feet C infiltration pipe.
6		0	\ 3.5' Tan fine sand \ 4' Crushed coarse agg with No. 6 fuel oil and \ 5.5' Brown silty fine sand	(AGGREGATE BACKFILL)		perforated P 5 feet below Photo 2. No. 6 fuel oil p gallery appears limited	allery with 4-inch SCH 35 VC pipe encountered at ground surface presence in the infiltration to the coarse aggregate
8			Note the interior section of the infiltrat where flow is restricted.	tion pipe		beneath the perforated penetrate into the unde	PVC pipe, and did not

PROJECT:	TEST P	4		TEST PIT NO.:		
FARWELL MILL OIL RECOVERY S CONTRACTOR:	YSTEM EVALUATION	LOCATION: LISBON, MAINE		DATE: 22-May-07		
RANDY TIBBITS AGGREGATE (RT	A), MONMOUTH, MAINE		EXCAVATION METHOD: BACKHOE & SHOVEL		JOB NO.: 07078.00	
SURFACE SIZE (FT): 10 L x 6 W	5.7	OMPLETION DEPTH (FT): GROUND EL. (FT): GROUNDWATER DEPTH (F			LOGGED BY: WCM	
DEPTH SAMPLE GRAPHIC (FT) NO. LOG		DESCRIPTION SIFICATION	REMARKS, L		AB TEST RESULTS, TOGRAPHS	
2	\3'	gravel and pieces of brick (EXCAVATED SOIL FILL)		Encountered 30 mil ged 2.5 feet below ground s feet southwest from the	omembrane liner at a depth of urface, and offset about 12 PVC infiltration pipe.	
4 O	Tan fine sand \(\) 3.6' \(\) Crushed coarse aggivith No. 6 fuel oil and \(\) 5.3' \(\) Gray silty fine sand v	(AGGREGATE BACKFILL) with some clay		perforated P	illery with 4-inch SCH 35 VC pipe encountered at ground surface	
	\5.7'	(SAND)		Photo 1. In pits TP-2 ar	filtration pipe in test nd TP-3 not blocked.	
8	Bottom	of test pit				
\\Fserver\cfs\\MII\\Farwell\XIs\TestPits\TP_logs.xls SEVEE & MAHER ENGINEERS, INC.						

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			TEST P	IT LOG		an and a state of the first state of the property first state of the first state of	TEST PIT NO.:
PROJECT: FARWELL MILL OIL RECOVERY SYSTEM EVALUATION CONTRACTOR: LISBON, MAINE						TP-3 DATE: 22-May-07	
RANDY TIBBITS AGGREGATE (RT SURFACE SIZE (FT): 14 L x 8 W			COMPLETION DEPTH (FT): GROUND EL. (FT):		EXCAVATION METHOD: BACKHOE & SHOVEL GROUNDWATER DEPTH (FT		07078.00 LOGGED BY:
DEPTH (FT)	SAMPLE NO.	GRAPHIC LOG	MATERIAL	NOT SURVEYED DESCRIPTION SSIFICATION	WATER	REMARKS, L	WCM _AB TEST RESULTS, TOGRAPHS
2			Brown silty sand with of brick	n gravel and cobbles, and pieces (EXCAVATED SOIL FILL)		Encountered 30 mil ged 2.5 feet below ground s southwest from the PV	omembrane liner at a depth o surface, and offset about 4 fe C infiltration pipe.
6	DRO Sample Collected	0	\3.7' Tan fine sand \4.8' Crushed coarse agg with No. 6 fuel oil an	regate, stained black d oxidized iron (AGGREGATE BACKFILL)		perforated P 5 feet below	allery with 4-inch SCH 35 VC pipe encountered at ground surface
8			\7' Gray silty fine sand	(SAND)		Photo 1. Rep	pair to section of infiltration d for evaluation
			\7.5' Bottom	of test pit			
\Fserver\cfs	S\MII\Farwell\	Kls\TestPits\TI	P_logs.xls			SEVEE 9 BAA	AHER ENGINEERS, INC.





11 JUN 2007

June 7, 2007

Ms. Kristie Rabasca Sevee & Maher 4 Blanchard Road P.O. Box 85A Cumberland Center,ME 04021

RE: Katahdin Lab Number: SA2490

Project ID:

MII Farwell Mill Mrs. Andrea Colby

Project Manager:

Sample Receipt Date(s): May 23, 2007

Dear Ms. Rabasca:

Please find enclosed the following information:

- * Report of Analysis (Analytical and/or Field)
- * Quality Control Data Summary
- * Chain of Custody (COC)
- * Login Report

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Octobral Madeau
Authorized Signature

06/07/2007 Date

P.O. Box 540, Scarborough, ME 04070 • Tel: (207) 874-2400 • Fxx: (207) 775-4029 • 60# Technology Wey, Scarborough, ME 04074 www.katabdinlab.com

Katahdin Analytical Services 0000001





TECHNICAL NARRATIVE

Organics Analysis

The samples of work order SA2490 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates 1, II, IIA, and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA and/or Maine HETL, Method 41.25, Modified Method for the Determination of DROs, 9/95, for the specific method listed below or on the Report of Analysis. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation reports.

MEDEP4.1.25-Extended Analysis

DRO was detected in the laboratory method blank, WG39234-1, at a concentration of 21 mg/Kg, which is above the PQL of 5.0 mg/Kg. Since the associated sample had a DRO concentration which was more than 10 times the DRO concentration in the method blank, any contribution from the method blank is considered negligible. Therefore, the sample was not reextracted.

There were no other protocol deviations or observations noted by the organics laboratory staff.

DATA QUALIFIERS

- U Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.
- Compound recovery outside of quality control limits.
- D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.
- E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.
- J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
- B Organics- Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

 Metals- Indicates the analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the laboratory's Practical Quantitation Level.
- N Presumptive evidence of a compound based on a mass spectral library search.
- A Indicates that a tentatively identified compound is a suspected aldol-condensation product.
- P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns.
- MCL Maximum Contaminant Level
- NL No limi
- NFL No Free Liquid Present
- FLP Free Liquid Present
- NOD No Odor Detected

Report of Analytical Results

Client: Sevee & Maher
Project: MII Farwell Mill
PO No:
Sample Date: 05/22/07
Received Date: 05/23/07
Retrived Date: 05/24/07
Analysis Date: 05-JUN-2007 23:52
Report Date: 06/06/2007
Matrix: SOIL
% Solids: 84.6

Lab ID: SA2490-1DL2 Client ID: TP-3 SDG: SA2490 Extracted by: GN Extraction Nethod: SW846 3550 Analysis Method: MEDEP 4.1.25 Lab Prep Batch: WG39224 Units: mg/Kgdrywt

Compound Plags Results DF PQL Adj.PQL Diesel Range organics 6900 100 5.0 590 o-Terphenyl

Page 01 of 01 AAF1063.d





Report of Analytical Results

Client: Kristie Rabasca Sevee & Maher 4 Blanchard Road Cumberland Center,ME 04021

Lab Sample ID: SA2490-1 Report Date: 30-MAY-07 Client PO: 07078 Project: MII Farwell Mill SDG: SA2490

Sample Description TP-3

Matrix Date Sampled Date Received SL 22-MAY-07

23-MAY-07

 Result
 Adj PQL
 Anal. Method
 QC.Batch
 Anal. Date
 Prep, Method
 Prep, Date
 Anal.yst
 Poolnotes

 85. %
 1
 CLP SOW 788
 WG39995
 29-MAY-07 09:14:00
 CLP SOW 788
 25-MAY-07
 JF
 JF
 Total Solids

00 Technology Way P.O. Box 540, Scarborough, ME 04070 Tel:(207) 874-2400 Fax:(207) 775-4029

Katahdin Analytical Services SA2490 page 0000005 of 0000013

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

WG39234-BLANK

Project: MII FARWELL MILL

SDG No.: SA2490

Lab File ID: AAE1182A

Lab Sample ID: WG39234-1

Instrument ID: GC10

Date Extracted: 05/24/07

Date Analyzed: 05/24/07

Matrix: (soil/water) SOIL

Level: (low/med) LOW

Time Analyzed: 1635

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT	LAB	LAB	DATE	TIME
	SAMPLE ID	SAMPLE ID	FILE ID	ANALYZED	ANALYZED
		with with most each care as as as	********		
01	WG39234-LCS	WG39234-2	AAE1183A	05/24/07	1722
02	WG3 923 4 - LCSD	WG39234-3	AAE1184A	05/24/07	1810
03	TP-3	SA2490-1DL2	AAF1063	06/05/07	2352
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COMMENTS:

page 1 of 1

FORM IV SV

Katahdin Analytical Services SA2490 page 0000006 of 0000013

Report of Analytical Results

Client:
Project: NII Farwell Mill
PO No:
Sample Date:
Received Date:
Retraction Date: 05/24/07
Analysis Date: 24-MAY-2007 16:35
Report Date: 06/6/2007
Matrix: 80IL
\$ Solids: 100

Lab ID: WG39234-1 client ID: WG39234-Blank SGG: SA2490 Extracted by: GN Extraction Wethod: SW846 3550 Analysis 'TR Analysis Wethod: MEDEP 4.1.25 Lab Prep Batch: WG39234 Units: mg/Kgdrywt

 Compound
 Plags
 Results
 DF
 PQL
 Adj.PQL

 Diesel Range Organics
 21
 1.0
 5.0
 5.0

 O-Terphenyl
 86%
 1
 5.0
 5.0

Page 01 of 01 AAE1182a.d

LAB CONTROL SAMPLE

Client.
Project: MII Farwell Mill
PO No:
Sample Date:
Received Date:
Extraction Date: 05/24/07
Analysis Date: 05/24/07
Analysis Date: 05/24/07
Matrix: 06/06/2007
Matrix: SOIL

Lab ID. MG39234-2 & WG39234-3
client ID: MG39234-LCSD
SDG: SA2490
Extracted by: GN
Extraction Method: SM846 3550
Analyst: TA
Analysis Method: MBDEP 4.1.25
Lab Prep Batch: WG39234
Units: mg/Kgdrywt

page 1 of 1

FORM III SV-2

AAE1183a.d & AAE1184a.d

Katahdin Analytical Services SA2490 page 0000008 of 0000013



Quality Control Report
Blank Sample Summary Report

Total Solids

Samp Type	OC Batch	Anal. Method	Anal. Date	Prep. Date	Result	POL
MBLANK	WG39395	CLP SOW 788	29-MAY-07	25-MAY-07	U1%	1 %





Quality Control Report Laboratory Control Sample Summary Report

Total Solids

			Analysis						Acceptance		
Lab Sample 1d	Samp Type	QC Batch	Date	Prep Date	Units	Spike Amt.	Result	Recovery	Range	RPD	
WG39395-2	LCS	WG39395	-29-MAY-07	25-MAY-07	%	90	88.	98	80-120		

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http://kalahdinlab.com Katahdin Analytical Services SA2490 page 0000010 or 0000013

Natarian	milalytical	761	vices,	me.
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Client: Sake + Mcher

12. Corrective Action Report Filed?

partiple receipt Condition Report

Sampled By: Clicat

Chem. Jake + Micher		1	J 1 1411	IDC		Clicat
Project:		KIM	S Entry	By: D		Delivered By: Chart
KAS Work Order#: 5A2490		KIM	S Revie	ew By:	RC	Received By: 30
	Cooler:	_ ol	1	ndan market	Date/Tin	ne Rec.: (57230) 1130
Receipt Criteria	Y	N	EX,	NA	Con	nments and/or Resolution
Custody seals present / intact?		X				
2. Chain of Custody present in cooler?	X					
Chain of Custody signed by client?	X					
Chain of Custody matches samples?	X					
5. Temperature Blanks present?	X				Temp (°C):	3.3
6. Samples received at < 6 °C w/o freezing freez	ng?				Cooler temp	
 Volatiles free of headspace? Aqueous: No bubble larger than a pe Soil/Sediment: Received in airtight container? 	а		-	X		
Received in methanol?	,			'Υ		
Methanol covering soil?				X		
8. Trip Blank present in cooler?				χ		
Proper sample containers and volume	? X					
10. Samples within hold time upon receip	ot? X					
 Aqueous samples properly preserved Metals, COD, NH3, TKN, O/G, pheno TPO4, N+N, TOC, DRO, TPH – pH Sulfide - >9 Cyanide – pH > 12 	ol,			X		
			-		7	

KAS PM: AJC

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

Katahdin Analytical Services SA2490 page 0000011 of 0000013

Katahdin Scar	borough, ME 04074 (207) 874-2400				C		N of SE BEA			ΟY		,	\
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Katandin Analytical Services

Login Number: SA2490
Accounts:SEVEEM001
Sevee & Maher

Project:

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COLIENT POW
COUNTY EMPORATOR
A Blanchard Road
P.O. Box 85A
Accounts Psyable
Sevee & Maher

Frimary Invoice Address:
Accounts Psyable
Sevee & Maher
A Blanchard Road
P.O. Box 85A
Cumberland Center, ME 04021

Katandin Analytical Services
Login Information
ANALYSIS INSTRUCTIONS
CHECK NO.
CLIENT POW
COLIENT SERVICES
Client
KAS064-TXT
MAIL CATE
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aboratory ample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
2490-1 T	TP-3	22-MAY-07 14:	15 23-MAY-07			05-JUN-07	
atrix	Product	Hold Date (shortest) i	Soltie Type	В	ittle Count		
olid S	MEDEP4.1.25-EXTENDED	05-JUN-07			1		
olid S	TS .	21-JUN-07					

Total Samples: 1 Total Analyses:

ADDENDUM ORIGINAL CHAIN OF CUSTODY

	Technology Way rborough, Mf: 04074				C	HAI	N of	CUS	TOI	ΟY			
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Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	8 3					-				
TP-3	58.2007/1415	Soil	}										
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A ATTACHMENT A

ATTACHMENT A

SUMMARY OF OIL RECOVERY SYSTEM INVESTIGATIONS

A. Project Background:

The Farwell Mill Oil Recovery System was installed in order to recover No. 6 fuel oil from a former underground storage tank leak in accordance with an AOC dated 1987. The Oil Recovery System has been operated and maintained since installation in 1990. The system consists of a 250-foot interceptor system that collects groundwater containing No. 6 fuel oil for treatment by an oil/water separator. The treated water from the oil/water separator is discharged to a vault for pumping to a distribution box that feeds a groundwater infiltration trench. A 30-mil PVC geomembrane is keyed into a naturally occurring clay barrier and separates the oil saturated soil and interceptor trench from the treated water and infiltration trench. A monitoring well (MW-201) is located downgradient of the infiltration trench. The monitoring well and discharge effluent are sampled annually and analyzed for Diesel Range Organics (DRO). Figure 1 shows the general layout of the Oil Recovery System.

In May 1991, an oil pumping system was installed to remove oil from the oil/water separator and collect it in a 275-gallon aboveground storage tank located in a small trailer on the ground surface. This system reduced the maintenance needed on the subsurface oil/water separator. The Oil Recovery System is checked on a weekly basis to assure proper operation. The oil/water separator and vaults for the distribution box and sump pump station are cleaned on an annual basis, and oil accumulated in the oil/water separator is pumped to the surface tank approximately every two weeks.

A Memorandum of Agreement dated July 27, 1992 identifies that Miller Industries' responsibility for operation and maintenance of the system will end when no free oil product is discernible in the groundwater influent to the oil recovery system. In addition, the Memorandum of Agreement requires that the effluent from the oil recovery system and the groundwater in MW-201 be sampled annually to confirm that concentrations at both locations are 15 mg/L or less. Schedule 1 provides a summary of the approximate volume of oil recovered since operation began in 1991.

\\Aserver\cfs\MI\\Farwell\Docs\M\080730 mii.doc Sevee & Maher Engineers, Inc. August 4, 2008

Schedule 1 Historic Volumes of No. 6 Fuel Oil Recovered Farwell Mill, Lisbon, Maine						
YEAR	GALLONS					
1991	2,008					
1992	1,912					
1993	1,760					
1994	1,600					
1995	1,206					
1996	733					
1997	624					
1998	300					
1999	276					
2000	311					
2001	235					
2002	219					
2003	200					
2004	358					
2005	228					
2006	438.5					
2007	204.5					
Total Recovered	12,733					

Observation of Sheen. A sheen was observed and reported to the MEDEP on Friday April 27, 2007. Sevee & Maher Engineers, Inc. (SME) recommended shutting down the Oil Recovery System to prevent further discharge to the river. The presence of the 30-mil PVC geomembrane prevents groundwater migration to the river. MEDEP agreed to the shut down, and the system operator observed that the sheen on the Sabattus River disappeared approximately 10 minutes after the shut down.

SME Assessment. SME reviewed the Remedial Response Implementation Plan (H&A, 1990), As Built Configuration and Monitoring Report (H&A, 1990), Operation and Maintenance Plan (H&A, 1991), and selected other correspondence for the Oil Recovery System to assist in identifying the cause of the observed sheen. Our May 14, 2007 Memorandum to the MEDEP provided the following assessment and recommendations.

- May 2007 observations of oil and dirt residue within the sump pump vault (the
 discharge location for the treated water exiting the oil/water separator) and in the
 distribution box suggest the oil/water separator is not functioning properly and is
 allowing some discharge of No. 6 fuel oil through to the infiltration trench.
- Observations of oil were also made in the vault that contains the oil/water separator, suggesting that either the oil/water separator was leaking, there was a problem with the sump pump for the oil/water separator vault, or the oil/water separator vault was allowing infiltration of No. 6 fuel oil contaminated groundwater.
- In addition, May 2007 observations of overflows of the distribution box that feed the infiltration pipes, suggest the infiltration trench is clogged.

To address the first two issues (the malfunctioning oil/water separator, and the oil in the oil/water separator's vault), SME recommended conducting an inspection of the vault and oil/water separator during annual maintenance, and began working to identify retrofit and replacement options for the oil/water separator. To address the third issue, SME completed test pitting to evaluate the condition of the infiltration trench backfill and pipe, and a clean water test to assess the infiltration capacity.

The following is a summary of: (1) The maintenance and inspection work completed for the oil/water separator; and (2) The investigations completed to date related to the infiltration system.

- Oil/water separator maintenance and inspections. The annual maintenance and cleaning was completed over a four day period from June 25 to June 28, 2007 by Clean Harbors. The entire system was shut down for the maintenance and inspection. The inspections showed:
 - a. The integrity of vault appears to be good a small hole on the north side
 of the vault near the access manway was plugged with silicon caulking
 (See Photos A and B in Attachment C, Photo Log).
 - b. No leaks were observed in the seal around the inlet pipe to the vault or the seal on the outlet to the clean water discharge vault.

- c. The integrity of oil/water separator tank appears to be good. No significant leak from the tank was observed during the cleaning and inspection. However, there are a number of leaks associated with the piping and controls to and from the oil/water separator. There are plumbing leaks associated with the oil pumps that pump the oil to the ground surface. The inlet shutoff valve is broken (and the valve is frozen in the ½ open position). One of the heaters on the manway where the oil is stored is not functioning. There is also some broken piping in the clean water sump that needs to be replaced. To prevent groundwater from the interceptor trench from entering the system during cleaning of the oil water separator, the shut off valve was cut out of the inlet piping and a plug was installed.
- d. The condition of the coalescing plates was difficult to determine, but even after cleaning with a diesel wash and heated water power wash, the plates appear to be rusted, pitted, and coated with a significant amount of No. 6 fuel oil. It should be noted that it was quite difficult to access for cleaning, and inspection. A camera was lowered into the access manway for photos. This annual maintenance took four days whereas a typical cleaning only takes one day. Because of the access issues, it would not be cost effective to replace either the coalescing plates or the entire coalescing plate pack.
- e. The sump pump in the oil/water separator vault is not functioning.
- Infiltration System Inspections: SME completed test pitting at three locations along the infiltration system. The test pitting results were summarized in our June 25, 2007 memorandum to Miller Industries. SME also completed the clean water infiltration test on August 17, 20•7. The following is a summary of the findings of these two investigations:

- a. Figure 1 shows the locations of the three test pits completed on May 22, 2007. Test Pit 1 revealed that the northwest end of the infiltration pipe was filled with a silty sediment. Test Pits 2 and 3 showed no sediment in the infiltration pipe, and showed the perforations in the bottom were open. The coarse backfill under the infiltration trench contained visible No. 6 staining and concentrations of DRO above MEDEP Baseline 2 standards of 50 to 100 mg/kg. Observations of the fine silty sand under the coarse backfill did not contain any visible staining of No. 6 suggesting that the No. 6 fuel oil in the coarse backfill is not mobile and was not the cause of the sheen on the River on April 25, 2007.
- The clean water test was conducted on August 17, 2007. Clean water was obtained from the hydrant at the entrance to the lower parking lot for Farwell Mill. Flow rates were adjusted using a ball valve and measured continuously using a rod guided flow meter. Water was introduced into the infiltration system distribution box through a garden hose. Water levels were monitored at the distribution box and in MW-201 to assess the impact on groundwater fluctuation. The 4-foot diameter and 10-foot diameter vaults were also monitored to ensure no water was flushing back through the check valves into the vaults. Attachment D contains summaries of the data collected. Water was introduced to the infiltration system at a rate of 12 gpm for approximately two hours. The water level in the distribution box and in MW-201 was constant for 1 hour and 10 minutes. For the remaining 50 minutes of discharge at this flow rate, the water level in MW-201 increased by 2.2 feet, suggesting the pore spaces had been saturated. During this initial flow rate, (1 hour and 49 minutes in the test) a steady seep emerged from the riprap on the embankment, indicating a preferential pathway for groundwater flow was present. The infiltration flow rate was decreased to 6 gpm, and the water levels in MW-201 stabilized, but the seep on the embankment continued for the duration of the test (an additional 4.5 hours). A dye test was conducted by

introducing dye into the distribution box 4 hours and 5 minutes into the test. The dye was never observed at the seep.

The persistence of the seep and the rapid rise of the water table after 1.5 hours of infiltration at 12 gpm (as indicated by MW-201 elevation changes) indicate that a new infiltration trench will be needed to accommodate the current flow rate.

Based on the investigations completed to date, the oil/water separator and clean water infiltration systems are no longer functioning as designed. To assist Miller Industries in identifying options for replacement or retrofit of the systems, SME evaluated a variety of options. For the oil/water separator side, SME considered replacement of the oil/water separator or replacement of the coalescing plates. Several manufacturers of the oil water separator advertise that the use of coalescing plates can enhance separation of heavier oils. However, the manufacturers only warranty their products for oils with specific gravity of 0.91 or lower. SME estimates the specific gravity of the oil at Farwell Mill to be between 0.95 and 0.99 (based on field observations in July 2007). The combination of high specific gravity and high viscosity suggest that a traditional oil/water separator would not function well for very long. SME and Miller also considered heating the oil, however, heating of No. 6 creates sulfuric acid that would more rapidly degrade an oil/water separator system.

Completing minor retrofitting of the existing vault for use as a simple oil/water separator (as shown in Figure 2) would likely be as effective as purchasing and installing a new oil water separator. Retrofitting the existing vault would provide significant capacity for oil storage, and minimize the potential for overflow into the clean water side of the system because the 10-foot diameter vault has a capacity of 600 gallons per vertical foot. This system would be more amenable overall to simple maintenance from the surface, avoiding the necessity for confined space entry.

\\Aserver\cfs\MI/Farwell\Docs\M\\\\$80730\ mii.doc Sevee & Maher Engineers, Inc. August 4, 2008

It should be noted that any future attempt at recovery of No. 6 fuel oil will likely not be any more productive than the last few years have been because the majority of the free phase No. 6 fuel oil has likely been recovered. Although SME was unable to identify a historic prediction of the total volume of No. 6 that was spilled, it is likely that the majority of the recoverable No. 6 has been recovered. Incidental estimates from Miller Industries personnel report that an estimated 7,000 gallons was released, and historic documents show that over 12,000 gallons have been recovered, although a portion of this volume may have been water incidentally recovered with the No. 6 fuel oil.

ATTACHMENT C
PHOTO LOG

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Photo B Silicon repair of hole



Photo C Overall view of the oil/water separator side of the system



Photo D View of employee after annual cleaning of vault



Photo E View of interior of clean water sump



Photo F View of interior of oil/water separator vault

ATTACHMENT D

CLEAN WATER INFILTRATION TRENCH TEST

Notes	Total	10' Vault	4' Vault	Manhole	D-Box	MW-201	MW-201	Time	Time	Flow Rate
	volume	Thickness	Thickness					minutes		
	water	of fluid	of fluid	Depth	Depth fr. Rim	Elev	from riser	elapsed	Actual	
710000	(gallons)	(inches)	(inches)	(ft)	(ft)	(ft)	(ft)	130		(gpm)
4'Vault Measurement is										
approximate	0.00	0.125	2"	0	4.95	145.8	13.3	0	8:40	12
	24.00				4.55	W W-522		2	8:42	12
	48.00							4	8:44	12
	70.00				4.55			6	8:46	11
	80.00	200						7	8:47	10
4' vault	94.00		3"	0	4.5			8	8:48	14
approximate			4.25	0	4.5	145.75	13.35	11	8:51	12
	130.00 154.00		4.25		4.5	145.75	13.35	13	8:53	12
	238.00			0	4.5			20	9:00	12
·····	262.00			- 0		145.75	13.35	22	9:02	12
	418.00		4	0		145.75	13.35	35	9:15	12
	598.00	-	4.25	0	4.5		13.35	50	9:30	12
	748.00	-	4.25	0	4.5	140.70	13.33	65	9:45	10
	808.00		4.25	0	4.55	145.75	13.35	70	9:50	12
	1108.00		4.23	0	4.00	146.4	12.7	95	10:15	12
Seep on embankmen begins	1276.00			0	4.5	147.2		109	10:13	12
begins	1468.00	diam -	4.25	0	4.5	148		125	10:45	12

 MW-201 Riser Elev
 159.1

 Infiltration Trench Invert
 154

 Infiltration Trench Rim
 158.4

 4' Vault Rim
 161.35

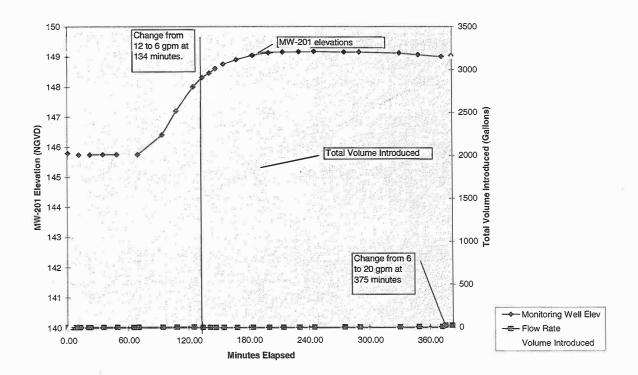
 10' Vault Rim
 161.3

 Average Water levels:
 159.5

Notes	Total	10' Vault	4' Vault	Manhole	D-Box	MW-201	MW-201	Time	Time	Flow Rate
	volume	Thickness of	Thickness					minutes		
	water	fluid	of fluid	Depth	Depth fr. Rim	Elev	h from riser	elapsed	Actual	
	(gallons)	(inches)	(inches)	(ft)	(ft)	(ft)	(ft)			(gpm)
	1522	0.125	4.25	0	4.65	148.3	10.8	134.00	10:54	6
	1570					148.45	10.65	142.00	11:02	6
Embankment stil										
seeping	1600	0 W			4.65	148.6	10.5	147.00	11:07	6
	1606	0.125	4 1/4"	0	4.65			148.00	11:08	6
	1648			1100-1		148.75	10.35	155.00	11:15	6
Embankment sti					-			-		i
seeping	1732		4 1/4"	ol	4.65	148.9	10.2	169.00	11:29	6
	1828		4 1/4"	0	4.65	149.05	10.05	185.00	11:45	61
	1918		4 1/4"	0	4.65	149.12	9.98	200.00	12:00	6
	2008		4 1/4"	0	4.65	149.15	9.95	215.00	12:15	6
11 / 1	2098		4 1/4"	0	4.65	149.17	9.93	230.00	12:30	6
Dye tested D-box	2188			0	4.65	149.17	9.93	245.00	12:45	6
- 5.500	2368		4 1/4"	0	4.65	149.15	9.95	275.00	13:15	6
11000	2458			0	4.65	149.15	9.95	290.00	13:30	6
Embankmen			-	-					-	15000
seeping, no dye a				- 1						
see	2698			0	4.65	149.12	9.98	330.00	14:10	6
	2818		1111	0	4.65	149.06	10.04	350.00	14:30	6
Embankmer						-				
seeping, no dye a		1					1			
see	2950			0	4.65	149	10.1	372.00	14:52	6
	3010			0				375.00	14:55	20
	3150			0		149.04	10.06	382.00	15:02	20

MW-201 Riser Elev 159.1 Infiltration Trench Invert 154 Infiltration Trench Rim 158.4 4' Vault Rim 161.35 10' Vault Rim 161.3 Average Water levels: 159.5

Farwell Mill Infiltration Test



\\Aserver\cfs\MII\\Farwell\Xis\water test sheet.xls

APPENDIX B

MEDEP SOLID WASTE ORDER – CLOSING PLAN, TRANSFER OF LICENSE AND AMENDMENT, 1992



STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION STATE HOUSE STATION 17 AUGUSTA, MAINE 04333

DEPARTMENT ORDER

IN THE MATTER OF

TOWN OF LISBON)	SOLID WASTE ORDER
LISBON, ANDROSCOGGIN COUNTY, MAINE)	CLOSING PLAN
SOLID WASTE LANDFILL)	TRANSFER OF LICENSE AND
S-14598-WR-B-N)	AMENDMENT

Pursuant to the provisions of 38 M.R.S.A., Section 1301 et seq., 06-096 CMR Chapter 1.11 the Administrative Regulations (effective date February 13, 1989) and 06-096 CMR Chapter 401.7, the Solid Waste Management Regulations, (effective date May 24, 1989) hereinafter referred to as "the regulations", the Department of Environmental Protection has considered the application of the TOWN OF LISBON with its supportive data, staff summary, and other related materials on file and finds the following facts:

I. APPLICATION SUMMARY

a. <u>Application:</u> The applicant has applied for transfer of Department Order #L-014598-07-A-M, dated October 24, 1988 and proposed significant changes to that license. This license is currently held by Farwell Mill Limited Partnership and is the approval of a closure plan to close out a waste disposal area on the Farwell Mill property.

b. <u>History:</u>

- (1) Farwell Mill was established in 1889 for the purpose of manufacturing textiles. In 1935, it was converted into a facility for the manufacture of vinyl asbestos floor tile. Farwell Mill ceased manufacturing operations in 1970. An unknown but extremely large quantity of waste vinyl asbestos floor tile was used as solid fill at numerous locations in downtown Lisbon. An area of approximately two acres located northwesterly of Farwell Mill between Route 196 and the Sabattus River was used for the disposal of vinyl asbestos floor tile, coal ash, demolition debris and other wastes.
- (2) In 1986, Merrymeeting Developers Inc. initiated a project which intended to convert the Farwell Mill to residential and commercial use. In February of 1988, Merrymeeting Developers Inc. submitted a closing plan for the two acre solid waste disposal area located northwesterly of the Farewell Mill.

TOWN OF LISBON LISBON, ANDROSCOGGIN COUNTY, MAINE SOLID WASTE LANDFILL S-14598-WR-B-N SOLID WASTE ORDER
CLOSING PLAN

TRANSFER OF LICENSE AND

) AMENDMENT

- (3) On Jan. 13, 1987 Leda Associates Inc. signed an Administrative Order by Consent which provided for, among other things, the construction of civil works and mechanical systems along the river bank in the two acre area located northwesterly of the mill. This construction was intended to stabilize the river bank and remove petroleum products from the soil and groundwater. These civil works, mechanical systems and groundwater monitoring wells were substantially completed in 1991 and are currently operational.
- (4) On September 18, 1988, ownership of the Farwell Mill was transferred from Merrymeeting Developers Inc. to Farwell Mill Limited Partnership. On October 24, 1988, the Department approved a Closing Plan (#L-01458-07-A-M) for Farwell Mill Limited Partnership regarding the two acre solid waste disposal area located southeasterly of the Farwell Mill. The Closing Plan required a secure closure of the area, excluding that portion occupied by the oil/water collection and separation system. The Closing Plan also approved construction of a parking lot over the closed landfill.
- (5) On January 21, 1992 the Town of Lisbon assumed ownership of the Farwell Mill property through the maturation of a property tax lien.

c. Summary of Proposal:

The basic premise of the applicant's proposal is to change the closing plan so that, when implemented, it minimizes impairment of the function of the oil/water collection and separation system. To maintain the groundwater recharge upon which the oil/water collection and separation is dependent, the applicant proposes to install galleries of 4' X 8' concrete infiltrators, below the parking lot's surface. The infiltrators are sized so as to be able to capture the runoff from all "30 minute storms" with a less than 25 year frequency. Any stormwater inflow which exceeds the infiltrators' 40,000 gallon storage capacity would be bypassed to an existing stormwater outfall. The applicant has submitted a Health and Safety Plan for the construction which adequately addresses asbestos containment and worker safety concerns. The applicant proposes no additional groundwater monitoring over that being conducted by Leda Associates Inc. The applicant has not proposed deed restrictions to protect the solid waste closure and the oil/water collection and separation system. The applicant has submitted evidence that it has the financial and technical capacity to complete the project.

2. CRIMINAL AND CIVIL RECORD

Applicant has submitted a disclosure statement in accordance with the requirements of Chapter 400.4(H) of the regulations. In 1987 and 1990, the applicant signed Consent Agreements related to effluent discharge violations at its wastewater treatment facility. The violations were resolved by payment of a fine on 1 occasion and upgrades to the wastewater treatment facility on both occasions.

TOWN OF LISBON LISBON, ANDROSCOGGIN COUNTY, MAINE SOLID WASTE LANDFILL S-14598-WR-B-N

SOLID WASTE ORDER CLOSING PLAN TRANSFER OF LICENSE AND

AMENDMENT

BASED on the above Findings of Facts, and subject to the Conditions listed below, the Department makes the following CONCLUSIONS:

- The applicant has provided adequate evidence of financial capacity and technical ability to meet air and water pollution control standards and the conditions, as amended by this order, of license #L-01458-07-A-M.
- 2. The applicant has provided adequate evidence of title, right, or interest for the facility.
- The applicant has provided adequate information with respect to its civil and criminal record in that the Town of Lisbon paid a penalty and complied with mitigation requirements.
- The applicant's proposal for closing this solid waste disposal area will not pollute any water of the State, will not contaminate the ambient air, constitute a hazard to health and welfare or create a nuisance provided that precautions are take to minimize impairment of the function of the oil/water collection and separation system.

THEREFORE, the Department APPROVES the above noted application of the TOWN OF LISBON to transfer license number L-01458-07-A-M and amend that license SUBJECT TO THE ATTACHED CONDITIONS and all applicable standards and regulations:

- The Standard Conditions of Approval, a copy attached as Appendix A and the original Department license #L-01458-07-A-M, except as amended by this order, a copy attached as Appendix B.
- Within thirty (30) days of the effective date of this order, the applicant shall submit to the Department for review and approval, draft deed restrictions which will protect the integrity of the oil/water collection and separation system and the closed landfill.
- Within ten (10) days of the Department's approval of the draft deed restrictions, the applicant shall record them in the Androscoggin County Registry of Deeds and provide the Department with a certified copy of the restrictions.
- In that area of the parcel located southeasterly of the Farwell Mill building, excluding the utility trench planned for along the parcel's boundary, the following activities are prohibited unless specifically approved by the Department:
 - Excavation or other disturbance (such as driving objects into the ground,), A.
 - В. Placing of structures or materials (such as stockpiles),

LISB	ON, AN	JSBON NDROSCOGGIN COUNTY, MAINE TE LANDFILL -B-N	4)	SOLID WASTE ORDER CLOSING PLAN TRANSFER OF LICENSE AND AMENDMENT					
	C.	Removal of material from or otherwise dand adjacent to the riverbank,	isturbi	ng the stone riprap which has been placed on					
	D.	Disturbance of the boulders which have lead to collection and separation system, and	een p	laced to protect components of the oil/water					
	, E.	Disturbance, destruction of or otherwise equipment which are components of the		ring with the pipes, manholes, and electrical ter collection and separation system.					
5.	In the event that Leda Associates Inc. discontinues groundwater monitoring at the site, the applicant shall, within 90 days of said discontinuation submit to the Department a proposal for a post-closure groundwater monitoring program.								
6.	prepa			at the site, the applicant shall submit a report that the closure was conducted as proposed by					
DON	IE AND	DATED AT AUGUSTA, MAINE THIS		30 th DAY					
OF_	C	ctober , 1992.							
DEP	ARTME	ENT OF ENVIRONMENTAL PROTECTI	ON						
BY:	Dean	an M. Pougunba for	-						

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES.

Date of initial receipt of application <u>August 18, 1992</u>
Date application accepted for processing <u>September 9, 1992</u>

Date filed with Board of Environmental Protection

OTMDO598/sjm

SOLID WASTE LICENSE STANDARD CONDITIONS

STRICT CONFORMANCE WITH THE STANDARD AND SPECIAL CONDITIONS OF THIS APPROVAL IS NECESSARY FOR THE PROJECT TO MEET THE STATUTORY CRITERIA FOR APPROVAL. VIOLATIONS OF THE CONDITIONS UNDER WHICH A LICENSE IS ISSUED SHALL CONSTITUTE A VIOLATION OF THAT LICENSE, AGAINST WHICH ENFORCEMENT ACTION MAY BE TAKEN, INCLUDING REVOCATION.

- This order is dependent upon and limited to the proposals and plans contained in the application and supporting documents submitted and affirmed to by the applicant. Any variation from the plans, proposals and supporting documents is subject to the review and approval of the Board or the Commissioner prior to implementation.
- The applicant shall secure and comply with all applicable Federal, State and local licenses, permits, authorizations, conditions, agreements, and orders, prior to or during construction and operation as appropriate.
- 3. The applicant shall submit all reports and information requested by the Board or Department demonstrating that the applicant has complied or will comply with all conditions of this approval. All preconstruction terms and conditions must be met before construction begins.
- 4. Advertising relating to matters included in this application shall refer to this approval only if it notes that the approval has been granted WITH CONDITIONS, and indicates where copies of those conditions may be obtained.
- 5. No person shall transfer a license for a solid waste disposal facility without first obtaining Board approval for the transfer of the ownership of the solid waste disposal facility. For a solid waste disposal facility, the Board, at its discretion, may require that the proposed new owner of the facility apply for a new license or may approve the transfer of the existing license upon a satisfactory showing that the new owner can abide by its terms and conditions and comply with the provisions of 38 M.R.S.A. Section 1310-Q. Public notice shall be provided in accordance with Chapter 400.4.D of the Solid Waste Management Rules.
- If the construction or operation of the activity is not begun within two years, this approval shall lapse and the applicant shall reapply to the Board for a new approval. The applicant may not begin construction or operation of the @evelopment until a new approval is granted. Reapplications for approval shall state the reasons why the development was not begun within two years from the granting of the initial approval and the reasons why the applicant will be able to begin the activity within two years from the granting of a new approval, if granted. Reapplications for approval may include information submitted in the initial application by reference.

- 7. If the approved development is not completed within five years from the date of the granting of approval, the Board may reexamine its approval and impose additional terms or conditions or prescribe other necessary corrective action to respond to significant changes in circumstances which may have occurred during the five-year period.
- A copy of this approval must be included in or attached to all contract bid specifications for the development.
- Work done by a contractor pursuant to this approval shall not begin before the contractor has been shown by the developer a copy of this approval.
- 10. All solid waste disposal facilities are required to accept only solid waste which is subject to recycling and source reduction programs at least as effective as those imposed by State law.
- 11. No solid waste facility licensee shall knowingly hire as an officer, director or key employee, or knowingly allow to acquire as equity interest or debt liability interest, any person having been found guilty of a felony or of a violation of environmental law or rules without first obtaining the approval of the Board.
- 12. Whenever any lot of land for solid waste disposal facilities is transferred by deed, the following shall be expressly stated in the deed:
 - a. The type of facility located on the lot and the dates of its establishment and closure.
 - b. A description of the location and the composition, extent, and depth of the waste deposited.

If asbestos-containing waste or asbestos-contaminated waste has been disposed on a site, the location coordinates must be identified (refer to Chapter 405).

1/90/SCOA

APPENDIX C

PROPERTY DEED RESTRICTION AND ASSOCIATED MEDEP CORRESPONDENCES, 1994



STATE OF MAINE

SW 5/24/94

DEPARTMENT OF ENVIRONMENTAL PROTECTION

JOHN R. McKERNAN, JR.

DEAN C. MARRIOTY

DEBRAH RICHARD DEPUTY COMMISSIONER

May 24, 1994

Curtis H. Lunt, Town Manager Town of Lisbon P.O. Box 8 Lisbon Falls, Måine 04252

Farwell Mill Landfill Closure, Lisbon DEP License #S-14598-WR-B-N Special Conditions #2,3,4,5 and 6

Dear Mr. Lunt:

The Bureau of Hazardous Materials and Solid Waste Control has reviewed the information you have submitted in accordance with Special Conditions 2,3,4,5 and 6 ●f Department Order #S-14590-WR-B-N, dated October 30, 1992, and issued pursuant to Title 38 M.R.S.A. Section 1301

Condition #2 reads as follows:

"Within thirty (30) days of the effective date of this order, the applicant shall submit t● the Department for review and approval, draft deed restrictions which will protect the integrity of the oil/water collection and separation system and the closed landfill."

In response to this condition you have submitted draft deed restrictions which upon modification were approved by the Department.

Condition #3 reads as follows:

"Within ten (10) days of the Department's approval of the draft deed restrictions, the applicant shall record them in the Androscoggin County Registry of Deeds and provide the Department with a certified copy of the restrictions."

In response to this condition you have submitted a notarized copy of approved deed restrictions which were recorded in the Androscoggin County Registry of Deeds at Book 3218, Page 328 on February 24, 1994.

Condition #4 reads as follows:

"In that area of the parcel located southeasterly of the Farwell Mill building, excluding the utility trench planned for along the parcel's boundary, the following activities are prohibited unless specifically approved by the Department:

- A. Excavation or other disturbance (such as driving objects into the ground);
- B. Placing of structures or materials (such as stockpiles);
- Removal of material from or otherwise disturbing the stone riprap which has been placed on and adjacent to the riverbank;
- D. Disturbance of the boulders which have been placed to protect components of the oil/water collection and separation system; and
- E. Disturbance, destruction of or otherwise tampering with the pipes, manholes, and electrical equipment which are components of the oil/water collection and separation system."

In response to this condition you have submitted a letter dated March 31, 1994 from Curtis H. Lunt, Town Manager, which commits the Town of Lisbon to refrain from these activities unless specifically approved by the Department. Further, these prohibitions have been incorporated into the Deed Restrictions referenced in Special Condition #3.

Condition #5 reads as follows:

"In the event that Leda Associates Inc. discontinues groundwater monitoring at the site, the applicant shall, within 90 days of said discontinuation submit to the Department a proposal for a post-closure groundwater monitoring program."

In response to this condition you have submitted a letter dated March 31, 1994 from Curtis H. Lunt, Town Manager, which commits the Town of Lisbon to submit a proposal for a post-closure groundwater monitoring program in the event that Leda Associates Inc. discontinues groundwater monitoring at the site.

Condition #6 reads as follows:

"Within 30 days of the conclusion of closure activities at the site, the applicant shall submit a report prepared by a licensed professional engineer verifying that the closure was conducted as proposed by the applicant."

In response to this condition you have submitted a final project report dated July 9, 1993 by William J. Dawson, P.E.

As the result of its review, the Department has found that the submissions satisfactorily address the requirements of Conditions #2, 3, 4, 5 and 6.

Based upon the above referenced review, the Department concludes that the Town of Lisbon has complied with Conditions #2,3,4,5 and 6 of Department Order #5-14598-WR-B-N. If you have further questions regarding this matter please contact Terry A. McGovern, project manager, at 287-2651.

Paula M. Clark, Director Division of Solid Waste Facilities Regulation

Bureau of Hazardous Materials and Solid Waste Control

Terry McGovern, DEP

OTMLUNT/djp

LICENSE REVIEW ROUTING SHEET

PROJECT MANAGER | McGovern

DATE SUBMITTED 5-10-94

ORDER TYPE (AIS CODE)								
	ORIGINAL ORDER (N)					AFTER-THE FACT		
	RENEWAL (R)					APPEAURECONSIDER	ATION (Z)	
	TRANSFER (T)					PERMIT/LICENSE BY F		
	MINOR REVISION (M)				Х	OTHER: COND COMPL		
AMENDMENT					Λ	OTTIETT. GOINE GOINT E		
[/uncircument [/]								
APPLICANT		Town of Lisbon		ADDRESS	PO Bo	O Box 8 Lisbon Falls ME 04252		
PROJECT LOCATION		Lisbon		PROJECT#	S-145	14598-WR-B-N		
	LICATION TYPE	Transfer and amend						
1		The second secon						
1000	ISSUES/COMMENTS None							
ENFORCEMENT STATUS:								
_	X NO ENFORCEMENT ACTION ASSOCIATED WITH THIS APPLICATION							
1	ENFORCEMENT ACTION BEING PURSUED							
1	ORDER/AGREEMENT IN EFFECT							
ENF	ORCEMENT STAF							
COM	IMENTS							
COMPLIANCE STATUS (if available)								
REVIEWED BY:								
SUPERVISOR		J.Glasgow	RETU	RETURNED FOR REDRAFT		OK DATE	5/10/94	
COMMENTS		as noted						
1								
DIVISION-DIRECTOR		RET		JRNED FOR REDRAFT		OK DATE		
COM	IMENTS							
BUREAU DIRECTOR			RETURNED FOR REDRAF		DRAFT	OK DATE		
GOMMENTS								
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TOWN OF LISBON

BOARD OF SELECTHEN
Lise Tancrede
Edward Wall
Robert A. Berube
David Bowie
J. Michael Huston
TOWN MANAGER
Curtis Lunt

P. O. BOX 8, LISBON FALLS, MAINE 04252 LISBON, LISBON CENTER, AND LISBON FALLS TEL. 207-353-3000 FAX 207-353-3007

Settled in 1628 Incorporated June 22, 1799

24 3/31/77

March 31, 1994

Mr. Terry McGovern State of Maine Department of Environmental Protection State-House Station #17 Augusta, ME 04333

RE: Condition Compliance Letter (Lic #L-01458-07-AM)

Dear Terry:

It is the request of the Town of Lisbon to receive from the Maine DEP a letter of condition compliance. As you are aware, the Town of Lisbon has cooperated with the Maine DEP to resolve all the issues that were inherited by the Town since its takeover of the property. We appreciate the response and professional manner you and your department have shown us in this endeavor. Summary of condition compliance conditions:

- 1. Original license #L-01458-07-AM
- Copy of recorded deed restrictions are hereby attached as Town Exhibit 1 (BK 3218 pg 328) of Androscoggin Registry of Deeds.
- 3. See Exhibit 1 attached
- 4. The Town is in agreement to the following:

In that area of the parcel located southeasterly of the Farwell Mill building, excluding the utility trench planned for along the parcel's boundary, the following activities are prohibited unless specifically approved by the Department:

- A. Excavation or other disturbance such as driving objects into the ground $% \left(1\right) =\left(1\right)$
- B. Placing of structures or materials (such as stockpiles)



Mr. Terry McGovern Page 2 March 31, 1994

- C. Removal of materials from or otherwise disturbing the stone rip rap which has been placed on and adjacent to the riverbank
- D. Disturbance of the boulders which have been placed to protect components of the oil/water collection and separation system, and
- E. Disturbance, destruction of or otherwise tampering with the pipes, manholes, and electrical equipment which are components of the oil/water collection and separation system
- 5. In the event Leda Associates Inc. discontinues groundwater monitors at the site in violation of the Departments Administrative order or because of insolvency of Leda Associates Inc. the Town will submit a proposal for a post closure groundwater monitoring program within 90 days.
- Whitman & Howard Associates has submitted to the DEP written confirmation verifying the closure was conducted as proposed by the Town.

Sincerely

Curtis H. Lunt Town Manager

CHL:tlt

Enclosure

PS: Enclosed is the check for \$50.00 (check #020951) as you requested.

Settled in 1628 Incorporated June 22, 1799 TOWN OF LISBON

"Maine's Most Industrialized Town" Lisbon, Lisbon Center and Lisbon Falls Town Office

Box 8

Lisbon Falls, Maine 04252

Twila Lycette, CMC Municipal Clerk 353-3000

AFFIDAVIT

I, Daniel Feeney, do swear that this is a true copy of the original document in my possession.

State of Maine Androscoggin, ss

Subscribed and sworn to before me this 31st, March, 1994.

Twila Lycette, Notary Public Comm Exp 1-3-2001

BK3218 PG328

03837

FARWELL MILL LISBON, MAINE

PROPERTY USE RESTRICTIONS

TO WHOM IT MAY CONCERN:

Subject Property:

The Property is that known as the Farwell Mill, located on Route 196, Lisbon, Maine, Androscoggin County. The property is further described in a Deed recorded in the Androscoggin County Registry of Deeds Book 2310, Page 181 and on the tax maps of the Town of Lisbon, Map U-16, Lot 56. The Town of Lisbon foreclosed on the property in January, 1992, for nonpayment of taxes.

Background Information

Actions have been taken at the subject property at the direction of the Maine Department of Environmental Protection (DEP), to minimize the threat to the public health, safety, or to the environment, from toxic substances, solid waste and petroleum products which were or are now at the site. These actions consisted of:

- DEP approval of a closure plan for a solid waste disposal area, Removal of hazardous substances from the buildings to off-site licensed disposal

- removal of natzardous substances from the oblinings to on-site incensed disposal facilities,
 Removal of underground petroleum fuel storage tanks,
 Removal of electrical power transformers containing polychlorinated biphenols (PCBs),
 Construction of a concrete "cap" to confine PCBs in the sub-basement of the building known as the "dungeon",
 Stabilization of the riverbank, and
 Construction of civil works and mechanical systems to remove petroleum products from the soil and groundwater. the soil and groundwater.

Action (1) is more fully described in DEP Order #L-014598-07-A-M, signed October 24, 1988 as amended by DEP Order #S-14598-WR-B-N, signed October 30, 1992. Actions (2) through (7) are more fully described in an Administrative Order by Consent between LEDA (a previous owner) and the DEP, signed January 13, 1987. These two documents as well as an "as-built" drawing of the systems installed for cleanup of petroleum products are on file at the Department of Environmental Protection, Augusta, Maine, and at the Lisbon Town Office.

On June 10, 1988, Merrymeeting Developers Inc. (owner at that time), in cooperation with the DEP, imposed restrictions on the use of the property to avoid disturbing the integrity of the concrete "cap" in the "dungeon". The "cap" is intended to prevent exposure of, and human contact with, toxic waste containing chemicals called polychlorinated biphenols (PCBs), complete removal of which was impractical. A "Declaration of Covenants" describing these restrictions is recorded in the Androscoggin County Registry of Deeds, at Book 2263, Page 012.



Property Use Restrictions Imposed by This Document

To protect the public health, safety, and the environment, and to prevent damage to the above described systems from activities which otherwise might occur on the property, the DEP requires that certain activities on the subject property be restricted, until and unless these restrictions are modified in writing or removed by the DEP (or a successor organization). The DEP shall have the right to enforce the restrictions imposed by this document.

The following paragraph defines the area on the Property outside the Farwell Mill Main building which is restricted:

Beginning at a point where the dam on the Sabattus River meets the Farwell Mill Building, and further defined as being at the mean low water mark (MLW) on the downstream side of said dam, thence approximately 300 feet southeasterly along the MLW mark of the west bank of the Sabattus River to the fence at the property line, thence southwesterly along the property line to State Route 196, thence northwesterly along Route 196 to the Farwell Mill building, thence northeasterly along the Mill building to the southeast corner of the building, thence northwest along the building to the point of beginning.

The Plot Plan, attached to and made a part of this document, further describes the restricted area, which is divided into two zones A, and B, as follows:

Zone A

Zone A comprises the portion of the restricted area lying generally between the Sabattus River and a line located approximately ten feet west of the line of boulders. An underground Oil-Water Collection and Separation System is located in Zone A. The system consists of a plastic barrier (i.e. a polyvinyl chloride "geomembrane"), underground piping and electrical conduits, concrete manholes, and an oil-water separator tank. The system is designed to collect groundwater contaminated with petroleum products, and remove and collect the petroleum for disposal.

Zone B

Zone B comprises the remainder of the restricted area. Zone B is the location of buried solid waste. Zone B also constitutes a groundwater "recharge area" which is required for the effective operation of the underground oil-water collection and separation system.

The following activities are prohibited in Zones A and B unless previously approved in writing by the Commissioner of the Department of Environmental Protection:

- 1. Excavation or other disturbance (such as driving objects into the ground).
- Placing of structures or materials such as stockpiles except for snow moved within the restricted area
- Removal of material from or otherwise disturbing the stone riprap which has been placed on and adjacent to the riverbank.
- Disturbance of the boulders which are placed parallel to the river just west of the two four foot concrete manholes.

Disturbance, destruction of or otherwise tampering with the pipes, manholes, and electrical equipment within and in the vicinity of Zone A.

Owner of Record: Town of Lisbon, Androscoggin County, Maine

1994 Date

2/7/94 Date

OABDEED2/djp

FOR RECORDING PURPOSES:

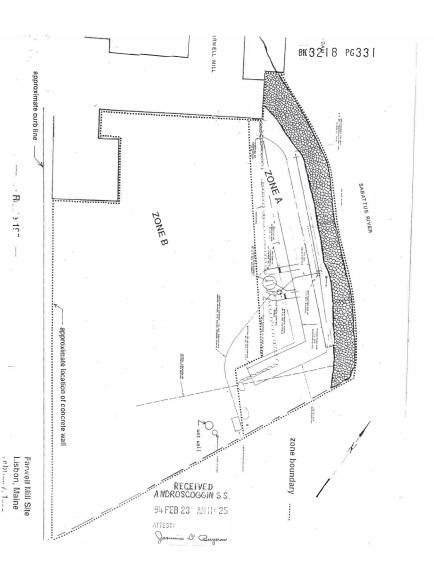
OWNER OF RECORD: TOWN OF LISBON, ANDROSCOGGIN COUNTY, MAINE

STATE OF MAINE ANDROSCGGIN, ss

FEBRUARY 22, 1994

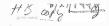
PERSONALLY APPEARED BEFORE ME, CURTIS LUNT, WHO ACKNOWLEDGED THE FOREGOING INSTRUMENT UNDER OATH TO BE HIS FREE ACT AND DEED,

TWILE TO A STATE TO THE COMMISSION EXPIRES 1-3-2001



APPENDIX D

MEDEP SPILL REPORT INFORMATION FOR REMOVAL OF SOIL CONTAINING OIL ALONG SABATTUS RIVERBED, AUGUST 1991



MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION **OIL & HAZARDOUS MATERIALS REPORT FORM**

Spill Number P - 551 - 90

SUBJECT / OWNER OR OPERATOR

Name (Last, First, MI): LEDA ASSOCIATES

Mailing Address: P. O. BOX 97

Town: LISBON FALLS

State: ME Zip: 04252-0097

Telephone: (207) 846-3991

Comments: CONTACT BEARL S. KEITH

LOCATION / FACILITY INFORMATION

Spill Location: FARWELL MILL

Address: ROUTE 196

Location ID: 23415

Zip: 04252-0097

Minor Civil Division: LISBON Latitude N: / / Longitude W: / /

SPILL / EVENT INFORMATION

Spill Type: A (Table A) Amount Spilled: 50.99 G (Gals, Yds3, Lbs or Bbls)

Product Reported Spilled: 06 (Table B) Product Actually Found: 06 (Table B)

Date Of Spill: Time Of Spill: (Military)

Date Reported: Aug. 27, 1990 Time Reported: (Military)

Cause Of Spill: 17 (Table C) Detection Method: 4 I (Table D)

Incident Code: A - ID - P - (Table E)

DEP response time involved: 0 Wells At Risk: 0 Wells Impacted: 0

Investigators' names : FULLER, GORDON

BINGHAM, ALLEN

CYR, SCOTT

PERSON REPORTING EVENT

Name (Last, First, MI): MAINE DEPT. OF ENVIRONMENTAL PROTECTION

Address: 17 STATE HOUSE STATION Town: AUGUSTA

State: ME Zip Code: 04333

Telephone: (207) 287-2651

```
Solids Non Combustible
                                                               Yds3
     Recyclable |
                                                  (Gals, Yds3, Lbs, Tons or Bbls)
   Number Filters Installed: 0
   Number Aerators Installed: 0
   Disposal Information :Site under investigation by Uncontrolled Sites. See Farwell Mill, Lisbon project file in Augusta.
OTHER ACTIONS
  ### THER ACTIONS

Expenditure (s) - From Surface Water Fund N ( Y or N ) From Ground Water Fund N ( Y or N ) From Haz Waste Fund N ( Y or N )

### Third Party Damage Claim Expected N ( Y or N ) Enforcement Referral N ( Y or N ) Insurance Fund Claim N ( Y or N ) Tech Services Referral N ( Y or N )
UNDERGROUND TANKS INFORMATION
      UNO/UST Tank Size of Tank Tank
Site Number Number Tank Material Age
```

(Gals, Tons or Bbls)

(Yds3 or Tons)

Total Product Recovered : 10,000.99 G (Gals, Yds3, Lbs, Tons or Bbls)

Spill Number P - 551 - 90

CLEAN-UP INFORMATION

Method of Recovery : J Non Recyclable :

Solids Combustible :

Please use separate sheets of paper, as needed, for your detailed Recommendations and Spill Marrative.

Remember to include/attach directions to find spill size (with a map if possible), all observations mede,
clean up actions performed and photos (if taken).

Include known chemical names when report is about Hazardous Materials.

Please, document your information carefully. It may be needed for future reference or legal action.

P.551-90, Lisbon

MEMORANDUM

August 29, 1991

TO:

Farwell Mill Site/Lisbon File

From:

Gordon Fuller, DEP, Site Investigation and Remediation (SIR) Division, OHMS II

RE:

Pield Activities Conducted 8/15 &16/91 SMI# P.551-90

Travelled to Farwell Mill Site in Lisbon to meet Al Bingham on 8/15/91. Al had called and requested some assistance with the cleanup of oil which had been encountered during rip rap/coffer dam removal operations along the Sabattus River bank. Al requested that I bring several bails of sorbents and persoanl protective equipment for he and I to conduct the cleanup activities.

I arrived on site just before noon, looked around, and conferred with Al as to the appropriate actions to take. We decided to attempt some cleanup of the problem, and therefore donned PFE and began cleanup using the sorbents. Unfortuneately, the sorbents were only marginally effective for cleaning up #6 cil and soon we realized that we would not have enough to complete the job. We discussed the problem at hand, and concluded that we needed further assistance and that we should attempt to gain approval to hire a contractor. Therefore I contacted Mike Barden, discussed the matter with him, and convinced him that we needed to hire a contractor. He gave me the ok to use a spill number and to go ahead and hire a contractor. I then contacted Clean Harbors in South Portland and requested that a crew be sent as soon as possible to clean up a #6 cil spill. A crew arrived shortly after 1:00 pm and worked until nearly 6:00 pm. Reinforcements arrived periodically throughout the afternoon to assist with cleanup activities. (Al departed the site in mid afternoon as he had other commitments in Augusta). Basically my afternoon consisted of oversight activities and the cleanup of waste materials from the river bank area. With some help from two Clean Harbors men, we removed three very old and badly deteriorated 55 gallon steel drums. At about 6:00 pm I locked the gate and departed the site.

On August 16, 1991 I returned to the site with Nick Hodgkins to provide contractor oversight and perform some additional river bank/bed cleanup. Upon arrival at the site, we observed Pinette removing more coffer dam and

releasing considerably more oil in the process. While the oil was somewhat contained by a bern, it nevertheless posed a significant concern. Therfore, I once again contacted Clean Harbors and asked them to send a truck and three men for the afternoon to cleanup the area. I felt such action was once again necessary since the weekend was beginning and rain was in the forecast. I was concerned that a large release to the river might occur between Friday and Monday if cleanup activities were not undertaken. Nick and I departed the site before noon and returned to Augusta. Upon arrival in Augusta, I briefed Scott Cyr as to the situation and requested that he go to the site for the afternoon to oversee all activities and direct Clean Harbors personnel as necessary.

CC: Al Bingham

MEMORANDUM

TO:

· Farwell Mill File

FROM:

Scott R. Cyr, OHMS

DATE:

August 27, 1991

SUBJECT: Work performed at the Farwell Mill by Clean Harbors Inc. 8/23/91 *****************

Ongoing remedial work at the Mill (i.e. rip rap of shoreline) unearthed an oily seep into the Sabbatus river. This prompted the need for environmental services to contain the oil and clean up the seep. The OHMS unit of SIR Division responded to the scene and determined the need for additional assistance. Therefore Clean Harbors Inc. was hired to do the clean up with State oversite.

Upon arrival at Farwell three Clean Harbors staff were in

opon allival at raiwell three Clean Harbors Stall Were in the coffer dam area using sorbet pads and oil snares to remove oil from the contained water. Site Manager Peter McCusker (CH) informed me that a vacc truck had been called for and should be there soon, meanwhile the crew would continue work by hand.

At approximately 2:30 two additional men showed up and delivered a note to me to call Gordon. In talking with Gordon, he wanted to fill/plug any identifiable source of oil leaking into the river. Unfortunately there was no one identifiable source to fill. It seemed that the whole bank was undercut with oil.

The Clean Harbors crew continued to hand sorb the oil until 4:00. At this time most of the collectable oil had been sorbed. The vacc truck arrived and was refused at the gate by Peter (CH). The crew finished about 4:30 leaving the water satisfactorily oil free, as best they could by hand. Packing and final completion was at 5:00. I took some documentation photos and exited the site, locking the gate.

cc: Al Bingham, Project Manager Gordon Fuller, OHMS II Debra Hanley, ES IV





MAINE STATE OF
DEPT OF ENVIRONMENTAL PROTECT
STATION 17
AUGUSTA, ME 04333
JD-7-91
JIM CAMPBELL
5677.868

RESPOND TO OIL SPILL

JOB DESC:

^^ATT: A. BINGHAM/G. FULLER FARWELL MILL LISBON, ME 04250 JOBSTRE.

OI TOMER	JOB NO.	 	HASE ORDER NO.	DATE WORK PERFORMED	15.00	TERMS		NVOICE DATE	INVOICE
ч 1920	M0806	P-5	51-90	SEE TOTAL PAGE	TOTAL PAGE NET		0	8/30/91	ME10747
YTHY: U:	ITEM I.D		-	DESCRIPTION '		PRICE	U/M	- 50	AMOUNT
0			*-C0	ST CATEGORY TOTAL	S-*		20		
2 2 2	e e		\$ 4 g	VOEO428	8416 064 0149 jol	amount §	26k	ENT 0315 appr48 src 1,50 at (,50 a)	0.00 0.00 382 580.00 340.00 0.00 530.00
(t)	5			MISC.& OTHER DRUM STORAGE		5010	N	UMBER	0.00
REGSIVED DERAPTSERT D EHVIRONESTE	SEP 9 10 27 All EURESTI OF	SERVICES	ir a	ACENT#	126 018	5 P.55, -06A-024	1-4	152-7661 152-7661	-7094 Jan
	9.5	# Q	e es	11 19	A L: tate	INVOICE TRANSPO Fee-PRE	TOTA X RTATI PAID ()	5,1	071.50 0.00 0.00
EKMS: 30 FRO	M LAST D	AY O	F WORK ON	THIS INVOICE (08	/16/		ICE TAL	5,0	071.50

25-	
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