



**Enbridge Energy, Limited Partnership
Enbridge Line 5 - Straits of Mackinac**

**Coating Inspections, Findings and Repairs
from Activities Completed in 2017**

**Anchor Inspection Work Plan:
Interim Report**

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LIST OF ACRONYMS

AIWP	Anchor Inspection Work Plan
BIWP	Biota Investigation Work Plan
CIS	Close Interval Survey
CP	Cathodic Protection
CRWP	Coating Repairs Work Plan
CSE	Copper-Copper Sulfate Electrode
Enbridge	Enbridge Energy, Limited Partnership
EPA	Environmental Protection Agency
ILI	Inline Inspection
MDEQ	Michigan Department of Environmental Quality
ROV	Remotely Operated Vehicle (Camera)

DEFINITIONS

Area(s) of Interest

An Area of Interest is a part of the pipeline where, based on visual inspection, (i) the normal (local) Biota is unexpectedly absent or (ii) there is evidence of possible coating damage (e.g. Dislodged Coating and/or potential Holiday). Disturbed Areas (see definition below) are not Areas of Interest as the lack of Biota can be attributed to past maintenance and monitoring activities.

Biota

Animals and plants living around and on the pipelines through the Straits of Mackinac (e.g. mussels, periphyton, algae, microbes, etc.)

Calcareous Deposit

A layer consisting of calcium carbonate and other salts deposited on the surface. When the surface is cathodically polarized by cathodic protection, this layer is the result of the increased pH adjacent to the protected surface. This layer functions as a barrier against the corrosive environment, leading to a decrease in cathodic protection current demand and more persistent chemical polarization of the pipe surface. A calcareous coating is also known as a calcareous deposit.

Disturbed Area

An area on the pipeline where past maintenance and monitoring activities resulted in the removal of Biota but does not represent damage to the pipe coating.

Dislodged Coating

An area on the pipeline where, based on visual inspection, the outer wrap of the coating appears to have been dislodged or removed without exposure of the pipe steel.

Holidays

An area on the pipeline where there is a discontinuity in the coating that exposes the pipe steel to the environment.

Undisturbed Area

An area on the pipeline where there is no evidence of any loss of Biota (or pipe coating).

1.0 Summary

This interim report supplements Enbridge Energy, Limited Partnership (“Enbridge”) November 13, 2017 Status Update [1] on the Anchor Inspection Work Plan (“AIWP”). Specifically, this report addresses the results of Enbridge’ coating inspections under that Plan during 2017 and describes the remaining work that will be completed in 2018.

As of the completion of inspection work in December 2017, a total of seven (7) locations from the AIWP inspections have as-found bare metal and/or bare metal created by the removal of calcareous deposits as per the AIWP. One of these locations was partially repaired before work ceased in 2017. A summary of the AIWP inspection findings is found in Table 1, while the summary of repairs completed to date relative to the AIWP inspections is set forth in Table 2. Overall, the AIWP inspections that have been completed represent 100 percent of the Remotely Operated Vehicle (“ROV”) inspections of the support anchor locations and approximately 37 percent of the diver inspections of the support anchor locations.

In 2018, Enbridge will repair all remaining bare metal spots, both those as-found and created by removal of calcareous deposits during the 2017 inspections. Currently, the remaining AIWP diver inspected locations have a cumulative bare metal area of less than one-third of a square foot. These locations are not an integrity concern as they are being effectively protected by the Cathodic Protection (“CP”) system. All inspections and maintenance actions are being conducted in full compliance with Pipeline and Hazardous Materials Safety Administration (“PHMSA”) regulations, 49 CFR Part 195, Subpart H – Corrosion Control. The occurrence of small areas of coating damage has not had an impact on the structural fitness of the pipelines. Ongoing integrity monitoring activities will incorporate enhancements to continual evaluation of coating and cathodic protection performance.

2.0 Introduction

2.1 Objective

This report fulfills the request by the Michigan Department of Environmental Quality (“MDEQ”), Michigan Agency for Energy, Michigan Department of Natural Resources and the Michigan Attorney General Office (collectively referred to as the “State”) for an interim report within 30 days of completion of the AIWP in 2017. The State requested that Enbridge’s interim report include the following information (the corresponding location within this report that fulfills these requirements are shown in brackets):

- a. Progress of the Work Plan, including percentage of completion (Section 3.1);
- b. Summary of the remainder of the Work Plan to be conducted in 2018 (Section 5.1);
- c. Summary of projected or anticipated deviations from the Work Plan as a result of findings from 2017 (Section 5.1);
- d. Timeline for re-starting operations in 2018 (Section 5.1).

2.2 Background - Work Activities in the Straits

2.2.1 Anchor Inspection Work Plan

During execution of the Biota Inspection Work Plan undertaken pursuant to the federal Consent Decree (Case 1:16-cv-00914, ECF No. 14 filed 05/23/17, Subsection VII.E), it was established that coating damage at one of the investigated sites with calcareous deposits (Location WAS-1) was caused by maintenance activities related to installation of a support anchor in 2014 (anchor rub). At the request of the State, Enbridge developed the AIWP to address the State’s concerns regarding possible pipeline coating damage from the installation methods used for the 128 existing screw anchor (see Appendix A). The AIWP was approved by the State on September 22, 2017, and inspections were suspended on December 17, 2017 due to the winter weather conditions that precluded safe continuance of the work. The inspections will resume once weather permits in 2018.

2.2.2 Biota Investigation Work Plan

As a matter of information, and in order to provide a fuller picture of other Dual Pipelines inspection work that has been conducted, the following briefly discusses the status of the Biota Inspection Work Plan (“BIWP”).

In late 2014, an assessment was undertaken regarding mussel attachment on the Dual Pipelines. The assessment is publically-available and consisted of a literature review followed by the collection and analysis of mussels collected from the Dual Pipelines [2]. The assessment focused on identifying the mussel community (i.e., zebra or quagga) and the biomass. Based on the 2014 assessment, it was determined that the mussel communities on the Dual Pipelines were primarily quagga mussels and were attaching to the pipe in single layers (i.e., not in multiple layers). A single coating sample was also analyzed for mussel byssal threads and no penetration into the coating was observed.

In accordance with the federal Consent Decree, an additional biota investigation program has been initiated, as described further here. Subparagraph 69.a of the Consent Decree requires Enbridge to conduct an investigation to assess whether the accumulation of mussels and other Biota have impacted the integrity of the pipelines' coating or the underlying metal. In accordance with this requirement, Enbridge prepared a BIWP, which was approved by the EPA on June 13, 2017. Crews were mobilized in August 2017 to inspect the coating on the Dual Pipelines by using work barges, divers, support teams, and underwater remotely ROV equipped with cameras, which provided live feed and recordings to technicians on-board the support barges. In 2017, a total of 23 coating inspection locations (i.e., 18 Areas of Interest and 5 additional sites) associated with the BIWP were examined by divers to gather information regarding the condition of the Dual Pipelines' coating.

Enbridge continues to implement the EPA-approved BIWP, and submitted an update to Environmental Protection Agency ("EPA") (which was copied to the State) on December 19, 2017. This update included a summary of the number and location of coating bare metal areas and repairs undertaken relative to the BIWP inspections.

As noted in Table 3, bare metal (0.01 ft.²) was found by diver inspection at EAS-1. Bare metal (2.57 ft.²) was also created at EAS-3 and EAS-4 by a communication cable rub during the execution of the 2017 BIWP. EAS-3 and EAS-4 were not included in the original BIWP submitted to the EPA; however, these two locations were added due to the mechanical damage caused to the coating on August 26, 2017, by a communication cable. The bare metal at these two locations (i.e., EAS-3 and EAS-4) comprises 99.6 % of the total bare metal as-found at the BIWP locations.

In addition, calcareous deposits were observed at six (6) of the BIWP locations, as shown in Table 3. Calcareous deposits are known in pipeline and other industries to be a byproduct of the cathodic protection of steel surfaces in marine environments. A representative photograph of the calcareous deposit is shown in Figure 1. As discussed further below, the deposits demonstrate that the cathodic protection current is effectively protecting the steel and, as the deposit builds, it serves as an additional protective layer on the steel. As part of the BIWP study, all calcareous deposits were removed, as summarized in Table 3, to confirm the condition of the pipe beneath them (see Sections 4.1 and 4.2) and gather samples to study the deposit chemistry.

As previously communicated to the State regarding the Biota Study, the coating has also been investigated at all biota investigation sites. From the biota investigation sites, there were eight (8) sites in total where either a small area of bare metal was found or where the pipe was made bare because of intentional removal of calcareous deposit. Of these eight (8), all but one was repaired prior to demobilization at the end of 2017 (Table 4). The one remaining location required State and Army Corps of Engineers permits in order to allow the removal of lake bed soil from around the bottom of the pipe prior to recoating. Those permits were received from the State in December 2017 and the Army Corps in January 2018, thus allowing the repair to proceed as soon as possible when weather allows in 2018. The area of this bare metal is 1.64 ft² and will continue to be protected with cathodic protection.

The full findings of the BIWP will be submitted in a final report to the EPA in 2018, and the State will be supplied with a copy of the report.

3.0 AIWP 2017 ROV and Diver Inspection Findings and Repairs

3.1 AIWP ROV and Diver Coating Inspection

In 2017, all 128 installed pipeline support anchor locations were inspected by ROV and a total of 48 locations have been examined by divers to gather further information. Refer to Appendix B for the AIWP ROV and diver inspection forms. The AIWP inspection forms designate the coating features into two categories: (1) “holiday (bare metal)” – holidays that are bare metal areas (as-found); and (2) “deposit” - locations where calcareous deposits have formed a protective barrier. Overall, the AIWP inspections that have been completed represent 100 percent of the ROV inspections of the support anchor locations and approximately 37 percent of the diver inspections of the support anchor locations.

The ROV inspection did not identify any bare metal at any of the 128 anchor locations. In total, 25 of the 128 ROV facilitated anchor inspections identified evidence of calcareous deposits. Divers later identified bare metal at three (3) of the 48 anchor locations and calcareous deposits at 42 out of the 48 anchor locations. The diver inspections are more effective than the ROV in identifying bare metal locations and calcareous deposits because the diver removes the accumulated biota that masks the identification of the bare metal and deposits. No external corrosion metal loss was found at any of the sites. As per Section 5.1.4 of the AIWP, Enbridge is committed in 2018 to repairing any bare metal locations discovered by the AIWP diver inspections and any that were created through removal of deposits.

As noted and shown in Table 1, bare metal was found at three (3) anchor locations: E-10, E-13 and W-3. The total area of anchor location bare metal as-found was 0.83 ft². Section 3.2.3 of the AIWP (Appendix A) requires removal of any calcareous deposits to examine the pipe. Calcareous deposits were removed at five (5) anchor locations (i.e. E-1, E-2, E-5, E-7 and E-10) to confirm the condition of the pipe beneath them (see Sections 4.1 and 4.2), gather samples to study the deposit chemistry, and determine the amount of bare metal area underneath the deposits. Thickness measurements of the coating were also collected at these five (5) anchor locations. The measurements show that the coating that is adjacent to the calcareous deposits had average thicknesses (123 mils) indicating intact (non-damaged) coating.

In total, an additional 0.23 ft² of bare metal was created by the removal of the calcareous deposits. After October 7, 2017, execution of the AIWP was changed to focus on visual examination of the anchor coating for the remainder of 2017 and to leave calcareous deposits in place due to the fact that removal had the potential to create bare metal areas that could not be repaired in time (due to weather) in 2017.

3.2 Coating Repairs

Enbridge submitted the Coating Repairs Work Plan ("CRWP"), Version 3, to the EPA on September 13, 2017 and to the State on September 18, 2017 (Appendix C). The CRWP was prepared in response to Enbridge identifying bare metal on the exterior surface of the Dual Pipelines during implementation of the BIWP. On September 14, 2017 the EPA approved Version 3 of CRWP, and approval from the State was provided on October 5, 2017.

All coating repairs that were completed used a full-circumferential composite wrap repair, Method 1, as outlined in the CRWP, Version 3.0. In total, there were 15 locations of bare metal identified and the majority of these were created by the divers after removal of the calcareous deposits (AIWP - Table 1, and BIWP - Table 3). In 2017, seven (7) of the 15 locations were repaired in accordance with the CRWP. The remaining locations have a total bare metal area of less than 2 ft² and will be re-inspected and repaired in 2018.

4.0 Analysis of Inspection Information

Post the November 13, 2017 Status Update, the steps at this stage involve the collation and organizing of all data gathered from the ROV and diver inspections and first phase analysis of the findings. The process involves in-house and third party experts. The information gathered in this investigation has been and will continue to be integrated alongside all information gathered from core integrity program activities. The evaluation examines the observations regarding any bare metal locations and calcareous deposits and assesses their relationship to operating conditions, existence of mussels, historic maintenance activities, or other factors that are identified. Various analyses have been completed, are underway, or will be added once further data is collated in 2018. Interim findings are described in the following sections.

4.1 Visual Inspection for Corrosion Metal Loss

No external corrosion metal loss was observed by the divers at any of the six (6) as-found bare metal locations (three (3) from the BIWP and three (3) from the AIWP). Moreover, it was confirmed by direct diver inspection that no corrosion metal loss had occurred at any location where the deposits were removed and bare pipe revealed, including the circumferential weld location at EAS-1. The results of the diver's observations are consistent with inline inspection ("ILI") results that have repetitively shown that external corrosion metal loss has not occurred at any location across the entire lengths of both segments. The most recent ILI was conducted in 2017 and additional ILI is scheduled for early 2018. These results provide evidence that corrosion is being effectively managed through the combination of the protective coating, cathodic protection including formation of calcareous deposits, along with regular ILI and associated integrity management activities. Given the low temperatures at pipe depth beneath the water, it is likely that the environment surrounding the pipe is a condition of low corrosivity, and this is an aspect that will be further considered as part of Enbridge's analyses.

4.2 Pipe Wall Thickness

An underwater ultrasonic thickness ("UT") gauge was utilized to measure the pipe wall thicknesses at all coating repair locations. In total, 348 measurements were taken after cleaning the area of any adherent material. After analysis, the average pipe wall thickness measurements at the repair locations were 0.814 ± 0.023 inches (99% confidence level). The minimum wall thickness measurement from all measurements was 0.754 inches, well above

the American Petroleum Institute API 5L Specification for Line Pipe minimum acceptance, which states that the wall thickness tolerances for 0.813 inch (nominal thickness) seamless pipe is from 0.711 to 0.934 inches. The pipe wall thicknesses exceeds both the original version of API 5L used for design and construction, as well as the current (more stringent) version of API 5L. Figure 2 provides a summary of the Line 5 wall thickness variation for the East and West segments and evidences that the wall thickness variation is within the tolerances stated in the API 5L Specification for Line Pipe.

In summary, no external metal loss was observed, and all measurements from direct assessment wall measurement inspection by the diver fall within the API 5L specification for wall thickness tolerance. All values fall within -11% to +10.25%, and therefore within the allowable tolerance of -12.5% to 15% variation of nominal wall thickness. The wall thickness of the Dual Pipelines adds in a substantial safety factor over what would be typically required by pipeline design.

4.3 Cathodic Protection Measurements

CP is an electrochemical method of preventing corrosion of metal structures exposed to aqueous environments. CP is a well-established process that has been used to protect pipelines in soil and water for over 100 years. While it is possible to meet the objective of preventing corrosion using CP or coating systems singly, it is more effective and reliable to use them together. The coating system provides a primary barrier between the steel and the environment and also substantially reduces the amount of metal requiring CP – making the application of cathodic protection simpler and more efficient. It is well understood within corrosion control practice that structures that are coated will experience some coating holidays or coating damage during construction or subsequent events, such as the cable rubs described above. The CP systems are installed to ensure that corrosion is prevented where there are imperfections in the coating system. The Dual Pipelines were designed to be protected using both an external coating system and cathodic protection. The enamel corrosion barrier applied to the dual pipelines was the best available at the time of construction and would be viewed to be an effective corrosion barrier still by today's standards [3].

Enbridge has monitored and maintained the impressed current systems protecting the Dual Pipelines through the Straits in accordance with industry best practice and all applicable regulatory requirements. Routine monitoring activities presently include annual collection and

evaluation of pipe-to-soil potential measurements on each side of the Straits, and continuous remote monitoring of the Enbridge owned impressed current sources affecting the dual pipelines. Over time and as the need arises, the current output of the CP systems are adjusted to maintain protection levels; and the consumable anode beds are upgraded when needed.

Enbridge conducted a close-interval-survey ("CIS") through the Straits in 2003. This survey demonstrated effective protection through the entire survey area, which spanned approximately 3.5 miles through the center of the channel. This survey data is presented in Appendix D and demonstrates the CP system is working as intended.

The execution logistics of the hydrotest conducted in 2017 allowed each of the Dual Pipelines to be electrically isolated from the onshore facilities for the first time since the pipes were constructed. This permitted additional detailed CP testing, including direct measure of the CP current being applied to each pipe, incremental CP current requirement testing, and attenuation analysis. The full report provided by the survey contractor is provided in Appendix E. The report indicated that each pipeline requires roughly 1.5 amperes of current (approximately 0.013 mA/ft^2) for complete cathodic protection. As compared to published CP current density requirements of 2 – 6 mA/ft^2 for bare steel in freshwater [4], this indicates a well-coated pipe with an efficiency in the range of 99.3-99.8%. Direct measurement of applied CP current demonstrates that each line receives more than adequate protective current. These data further support the ILI results that demonstrate effective corrosion control on the Dual Pipelines.

More than 600 pipe-to-water CP measurements were recorded during the BIWP and AIWP. Enbridge employed a criterion of -600mV CSE as an initial indicator of possible bare metal. These measurements are evaluated in consideration of other CP readings in the area when making the determination of metal exposure. The full complement of CP data collected during this investigation is presented in Appendix F. Summary results from each site, including major findings where applicable, are presented in Table 5. A more lengthy discussion of each dives CP readings are detailed in Appendix F.

Cathodic protection potentials recorded during the BIWP and AIWP dive inspections generally exhibited substantial availability of cathodic protection current – as indicated by current applied

'ON' CP readings. The average of all 'ON' readings was -1442 mV CSE, which is approximately 800mV more electronegative than the expected native potential of steel in freshwater. Moderate to high levels of cathodic polarization were also observed in the majority of data – as indicated by the current interrupted 'OFF' CP readings. The average of all 'OFF' readings was -968 mV CSE, which exceeds the requirements of industry best practice [5] and applicable regulations [6].

The prevalence of calcareous deposits impeded the ability of divers to obtain as-found CP potentials; this is due to the high resistance of the calcareous deposits that interfered with the potential measurements. The divers typically had to remove the deposits to obtain CP potential readings – this disturbs the chemical polarization at the pipe surface and reduces the level of cathodic protection as compared to what would have been present with the previously intact deposits. This phenomenon was explored on dive WAS-1; and the data clearly showed that removing the calcareous deposits using a power wire brush diminished the cathodic protection potentials by nearly 100 mV. While the effect is temporary (as the calcareous deposit re-forms), it underscores the positive impact of the intact deposits and highlights the advantage of keeping such deposits intact during future CP surveys. It is also noted that the divers detected no corrosion metal loss at any dives (Sections 4.1 and 4.2); this demonstrates that the cathodic protection being received by the Dual Pipelines has been entirely successful at preventing external corrosion metal loss.

In recognition of the challenges associated with diver based CP measurements, Enbridge is planning an ROV based CIS through the Straits over each pipeline in 2018. CIS is a standard technique for acquiring comprehensive corrosion protection information over the entirety of a structure. Also importantly, using the CIS, the performance of the CP system can be measured accurately without the need to remove the calcareous deposits; this will ensure that the collected data represents the natural CP status of the pipeline – including the beneficial effects of the deposits.

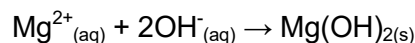
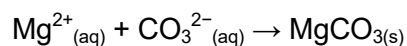
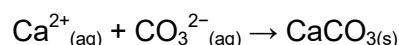
4.4 Calcareous Deposits

Calcareous deposits are a well-known byproduct of CP in scaling water and soil environments. Such deposits form when application of CP drive electrochemical reactions at the pipe surface that increase the alkalinity of the structure-environment interface. The increase of pH is both a

result of the CP current, and the cause of chemical polarization that is observed during structure-to-soil potential surveys [7].

Calcareous deposits have been extensively studied due to the vast amount of offshore infrastructure including ships and barges, docks and piers, oil/gas production platforms and drilling rigs, and subsea pipelines. In order to leverage this industry experience, Enbridge engaged MEARS Group Inc. to perform a literature search and evaluation of the calcareous deposits observed on the Dual pipelines through the Straits. It was noted in the Mears study report that industry practice has been to leave such deposits undisturbed, recognizing the beneficial protective effects of calcareous deposits at coating flaws in conjunction with effective CP. The Mears study also confirmed that experience with calcareous deposits in the seawater setting, which has been more extensively studied, is applicable to the fresh water of the Great Lakes. The Mears study is attached at Appendix G.

In soils or waters where there is sufficient calcium and magnesium present, the increased pH causes precipitation of calcium carbonate and magnesium hydroxide. The process of calcareous deposit formation is shown in Appendix G and the abbreviated chemical reactions are simplified below:



The formation and properties of calcareous deposits on metal surfaces are affected by variables such as cathodic protection current densities, time, temperature, pressure, pH, chemistry, water velocity, and substrate surface condition.

Calcareous deposits are considered a form of coating [8,9]. Studies have shown that the CP current density received by a bare steel surface that is maintained at a stable cathodic potential will decrease over time as calcareous deposit is formed [10]. This is attributed to the calcareous deposit acting as a barrier to prevent oxygen access to the steel surface. Similarly, the calcareous barrier preserves chemical polarization (accumulation of alkaline species) at

the steel/electrolyte interface. As a barrier to movement of chemical species, calcareous deposits achieve the same intended purpose as engineered protective coating systems.

Some of the CP readings obtained before and after wire brushing (removal) of calcareous deposit clearly demonstrated an electropositive shift in CP potential after the deposits were disturbed. These data demonstrate that removing the calcareous deposits will decrease the level of CP achieved at that location. While this effect is temporary until the calcareous deposit reforms (or a new barrier coating system is applied), the observation underscores the beneficial effect of the deposits.

The information reviewed and analyzed to date indicates that the presence of calcareous deposits observed at coating flaws on the Dual Pipelines are a beneficial result of an effective external protective coating system and an effective CP system. The formation of calcium carbonate and magnesium carbonate at coating flaws serves to protect the underlying steel from corrosion at the elevated pH values consistent with the formation and adhesion of the deposits. Corrosion rates for carbon steel are significantly reduced at pH values associated with the application of effective CP and the development of calcium and magnesium carbonate at the pipe surface. This is further substantiated through the ILI results and direct diver observations that indicate no external metal loss anomalies in Dual Pipelines.

Enbridge desires a meeting with the State of Michigan to discuss further the calcareous deposits and whether an amendment to the AIWP is warranted for the handling of the calcareous deposit going forward.

5.0 Future Work

5.1 2018 AIWP Scope of Work

Enbridge will commence execution activities in 2018 in accordance with the schedule set forth below. The execution activities outlined below assume that the proposed modifications to the AIWP are approved. The schedule is highly dependent on weather conditions allowing safe access to perform the work.

Other work scope, such as screw anchor installation or other activity in the Straits, may necessitate adjustments to the schedule outlined below.

- May, 2018: Anticipated earliest seasonal access to begin 2018 dive operations.
- May through September, 2018: Finish remaining diver inspections and complete coating repairs as outlined in the criteria listed in the following sections.
- October, 2018: Demobilize and finish 2018 operations.

Based on the findings provided in this interim report, Enbridge will work with the State to determine future work related to the calcareous deposits located on the Dual Pipelines. At this time, Enbridge proposes the following modifications and clarification to the AIWP and looks forward to feedback from the State.

5.1.1 CP Potential Measurements (Section 3.2.2 of the AIWP)

For the 2018 scope of work, Enbridge proposes that the CP measurements should not be taken through any calcareous deposits. Instead, CP status will be established using a CIS, as discussed in Section 5.3 below. Enbridge would like to discuss these issues further with the State.

Justification: Based on 2017 BIWP and AIWP experience, the likelihood of obtaining valid CP readings due to the high contact resistance presented by the calcareous deposit is extremely low. Additionally, data from 2017 indicates that removing the calcareous deposits can significantly degrade the level of cathodic protection being achieved; thus, efforts to remove deposits to facilitate potential measurements may produce data that no longer represents the original CP status of the pipeline. Enbridge intends to conduct a ROV based CIS in 2018 (Section 5.3), which will provide a more comprehensive and accurate view of CP

levels than is possible using divers. Additionally, penetrating through the calcareous deposits will compromise the protective nature of the deposits. CP readings taken from the anchors will be used in conjunction with the CIS to determine if any anchors are electrically shorted to the pipeline.

5.1.2 Deposit Removal (Section 3.2.3 of the AIWP)

The calcareous deposits effectively protect the steel and no external metal loss corrosion has been seen by the diver inspection or from the 2017 ILI measurements. Enbridge proposes to collect additional deposits in 2018 for chemical analysis and to re-affirm the condition of the pipe surface beneath those deposits. For the 2018 scope of work, Enbridge would like to review with the State the benefits of not immediately removing the calcareous deposits as called for in the AIWP, and rather maintaining the calcareous deposits as is through the completion of the inspections.

Justification: Calcareous deposits provide a protective environment, as discussed at Section 4.4 of this Report.

5.1.3 Criteria for Establishing Coating Defects (Section 3.2.4 of AIWP)

For the 2018 scope of work, Enbridge proposes that only as-found bare metal areas should constitute repairable coating defects. A bare metal area is defined as one with coating thickness less than 25 mils, no calcareous deposit, and CP potentials that are more electronegative than -600mV CSE. Repairs would also be conducted at spots where deposits are removed as part of the deposit examinations. Enbridge would like to discuss these issues further with the State.

Justification: The 2017 work scope was intentionally destructive of the calcareous deposits, and was responsible for creating the majority of bare metal now observed and adversely affecting the cathodic protection levels at some sites. The original plan served the needs of the 2017 work – specifically to examine the surface of the pipe for external corrosion metal loss and to take UT thickness readings. However, it is now better understood that calcareous deposits provide a protective environment.

5.1.4 Criteria for Coating Repairs

Enbridge has established a criterion for coating repair that may be required during the 2018: namely, all bare metal areas identified by diver inspection and confirmed with CP measurements will be repaired. The coating repair areas will include the remaining bare metal locations that have been identified in Table 2 and Table 4 and any new anchor locations with bare metal that are identified during the diver inspection.

5.2 2018 ILI Tool Runs

For the State's information, the Dual Pipelines are on an annual re-inspection interval for cracking, corrosion, and geometry technologies. As the previous inspections were completed in April 2017, a circumferential crack inspection, ILI corrosion inspection, and caliper geometry inspection are planned for the first quarter of 2018. Additionally, quarterly leak detection SmartBall® technology will also be conducted on the Dual Pipelines, consistent with the Consent Decree. Corrosion ILI will be completed in first quarter 2018 which will provide another confirmation of the corrosion condition of the pipeline.

5.3 Close Interval Survey

The CP readings obtained during the AIWP and BIWP underscored various issues, including: (i) the difficulty in obtaining good metal contact, (ii) obtaining CP readings using a manually operated voltmeter (the Polatrak CP gun) with a dynamic display, (iii) reference cell calibration drift over multiple dives, (iv) the challenges associated with synchronously interrupting multiple CP current sources, and the adverse consequence of removing calcareous deposits on the normal levels of cathodic protection. In order to better characterize the level of CP across the entire span of the Dual Pipelines, Enbridge is developing plans to conduct a CIS using a remotely operated vehicle and synchronous datalogging. This will permit a more rigorous analysis of pipe-to-water CP waveforms during rectifier interruption, and a much more comprehensive assessment of the cathodic protection levels through the Straits. The survey will include the following elements:

- Complete inspection of the entire ROV navigable pipe span (as opposed to a few discrete dive areas);
- Rigorous rectifier interruption management;
- Reliable electrical connection to the pipeline – to avoid contact resistance issues;

- A more reliable reference cell – to avoid contamination issues;
- Synchronized stationary dataloggers – to ensure the data has not been affected by transient phenomenon, and to permit transient error correction if required.

Enbridge intends to maintain rigorous integration and correlation of CIS data and ILI data so that any evidence of corrosion metal loss can be correlated to leading factors that can be used for future management of corrosion protection systems through the Straits of Mackinac – ensuring a safe long term operation of the dual pipelines.

5.4 Status of the Enamel Coating

While there is no external corrosion metal loss on the Dual Pipelines, Enbridge wants to understand the origins of the bare metal and calcareous deposits to anticipate any future integrity requirements. Accordingly, Enbridge will be contracting with a third party expert to review historical construction and installation practice, inspection records, and findings from the BIWP and AIWP inspections to determine the probable causes of the coating damage.

The findings will be made available to the State and the public upon completion.

5.5 Alternative Coating Repair Methods

The current coating repair technology requires full circumferential access around the pipe to apply the Stricture BandingTM. Enbridge has been researching alternative underwater coating repairs methods that would reduce the total dive times associated with a repair and/or not require full circumferential exposure of the pipe (i.e., reduces disturbance of the lake bottom, does not require a permit, and does not require unnecessary repairs over good original pipe coating). If testing of an alternative coating repair method is successful, Enbridge will provide the State and EPA a detailed report of the technology that will include the results and a comparison to currently approved approaches (Method 1 and Method 2). Enbridge will not use any new repair method on the Dual Pipelines unless and until it is approved by the State, and EPA.

6.0 References

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5. NACE SP0169-13, "Control of External Corrosion on Underground or Submerged Metallic Piping Systems", NACE International, Houston TX, (2013).
6. Title 49, CFR 195, "Transportation of Hazardous Liquids by Pipeline", Office of the Federal Register, Washington DC (2017).
7. R.A Gummow, S. Segall, D. Fingas, "An Alternative View of the Cathodic Protection Mechanism on Buried Pipelines", Materials Performance Vol. 56 No. 3, March 2017, NACE International, Houston TX, (2017).
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10. W.H. Hartt, C.H. Culberson, S.W. Smith, "Calcareous Deposits on Metal Surfaces in Seawater – A Critical Review", Paper 59, CORROSION 83, NACE International, Houston TX, (1983).

Tables

Table 1: Diver Inspection Results at Support Anchor Installations (AIWP)

Anchor Label	Area of Bare Metal As-Found (ft²)	Area of Bare Metal Created by Calcareous Deposit Removal (ft²)	Area Of Calcareous Deposit Remaining (ft²)
E-1	-	0.02	-
E-2	-	0.04	-
E-3	-	-	0.04
E-4	-	-	0.06
E-5	-	0.01	-
E-6	-	-	0.08
E-7	-	0.05	-
E-8	-	-	0.39
E-9	-	-	0.44
E-10	0.63	0.11	0.37
E-11	-	-	0.14
E-12	-	-	1.07
E-13	0.17	-	3.58
E-14	-	-	-
E-15	-	-	Less than 0.01
E-16	-	-	0.05
E-17	-	-	0.01
E-18	-	-	0.63
E-19	-	-	0.63
E-20	-	-	0.06
E-21	-	-	0.07
E-23	-	-	0.39
E-24	-	-	Less than 0.01
E-25	-	-	-
E-26	-	-	-
E-27	-	-	0.70
E-28	-	-	-
E-29	-	-	0.06
E-30	-	-	0.03
E-67	-	-	1.02
W-1	-	-	-
W-2	-	-	0.19
W-3	0.03	-	0.21
W-4	-	-	-
W-5	-	-	0.04
W-6	-	-	Less than 0.01

Table 1: Diver Inspection Results at Support Anchor Installations (AIWP) cont'd

Anchor Label	Area of Bare Metal As-Found (ft²)	Area of Bare Metal Created by Calcareous Deposit Removal (ft²)	Area Of Calcareous Deposit Remaining (ft²)
W-7	-	-	Less than 0.01
W-8	-	-	0.03
W-9	-	-	0.40
W-10	-	-	1.24
W-11	-	-	2.64
W-12	-	-	0.17
W-13	-	-	0.04
W-57	-	-	0.20
W-58	-	-	0.09
W-59	-	-	0.36
W-60	-	-	0.22
W-61	-	-	0.26

Table 2: Summary of AIWP Coating Repairs at Bare Metal Locations

Location	Coating Repairs Completed	Area Of Bare Metal Remaining (ft ²)
E-1	Spring 2018	0.02
E-2	Spring 2018	0.04
E-5	Spring 2018	0.01
E-7	Spring 2018	0.05
E-10	Partially	Less than 0.01 [†]
E-13	Spring 2018	0.17
W-3	Spring 2018	0.03
Total		0.33

[†]Small area of bare metal located near anchor. Repair will resume in Spring 2018.

Table 3: Diver Inspection Results at BIWP Locations

Location	Area of Bare Metal As-Found (ft ²)	Area of Bare Metal Created by Calcareous Deposit Removal (ft ²)	Area of Calcareous Deposit remaining (ft ²)
EAOI-1	-	0.03	-
EAOI-2	-	-	-
EAOI-3	-	-	-
EAOI-4	-	-	-
EAOI-5	-	0.01	-
EAOI-6	-	-	-
EAOI-7	-	6.18	-
EAOI-8	-	-	-
EAOI-9	-	-	-
EAOI-10	-	-	-
EAOI-11	-	-	-
EAS-1	0.01	0.88	-
EAS-2	-	0.14	-
EAS-3	0.93	-	-
EAS-4	1.64	-	-
WAOI-1	-	-	-
WAOI-2	-	-	-
WAOI-3	-	-	-
WAOI-4	-	-	-
WAOI-5	-	-	-
WAOI-6	-	-	-
WAOI-7	-	-	-
WAS-1	-	0.40	-

Table 4: Summary of BIWP Coating Repairs at Bare Metal Locations

Location	Coating Repairs Completed	Area Of Bare Metal Remaining (ft ²)
EAOI-1	Yes	0
EAOI-5	Yes	0
EAOI-7	Yes	0
EAS-1	Yes	0
EAS-2	Yes	0
EAS-3	Yes	0
EAS-4	2018	1.64
WAS-1	Yes	0
Total		1.64

Table 5: Summary of CP Measurements from BIWP and AIWP

Location	CP Measurement (-mV vs. CSE)			Date (DD/MM/YY)	Comments
	ON _{avg}	OFF _{avg}	OFF _{min}		
WAS-1	1358	885	836	9/22/2017	'ON' readings indicate available CP current, average 'OFF' reading indicates full protection.
EAS-1	1535	1019	945	10/06/2017	Full protection observed
EAS-2	-	-	-	-	No valid CP readings were obtained
EAS-3	841	806	783	8/29/2017	'ON' readings indicate available CP current, all readings believed to contain unknown source of error (calibration, procedure, transients).
EAS-4	961	865	844	8/30/2017	'ON' readings indicate available CP current, average 'OFF' reading indicates full protection. Readings possibly contain unknown source of error (calibration, procedure, transients)
EAOI-1	-	-	-	-	No valid CP readings were obtained
EAOI-5	-	-	-	-	No valid CP readings were obtained
EAOI-7	1365	1082	903	10/12/2017 10/13/2017	'ON' readings indicate available CP current, 'OFF' reading indicates full protection.
E-1	1646	907	907	9/30/2017	'ON' readings indicate available CP current, 'OFF' reading indicates full protection.
E-2	1509	-	-	10/1/2017	'ON' readings indicate available CP current.
E-5	1632	-	-	10/26/2017	'ON' readings indicate available CP current.
E-7	1554	-	-	10/2/2017	'ON' readings indicate available CP current.
E-10	1601	1042	912	11/2/2017	'ON' readings indicate available CP current, 'OFF' reading indicates full protection.
E-13	1486	-	-	10/6/2017 10/9/2017	'ON' readings indicate available CP current.
W-3	1606	-	-	10/9/2017 10/13/2017	'ON' readings indicate available CP current.
W-57	-	-	-	-	No valid CP readings were obtained

Figures



Figure 1: Photograph showing a calcareous deposit at EAS-2

Note: The average thickness of the calcareous deposit and adjacent enamel coating was 0.12 and 0.13 inches, respectively.

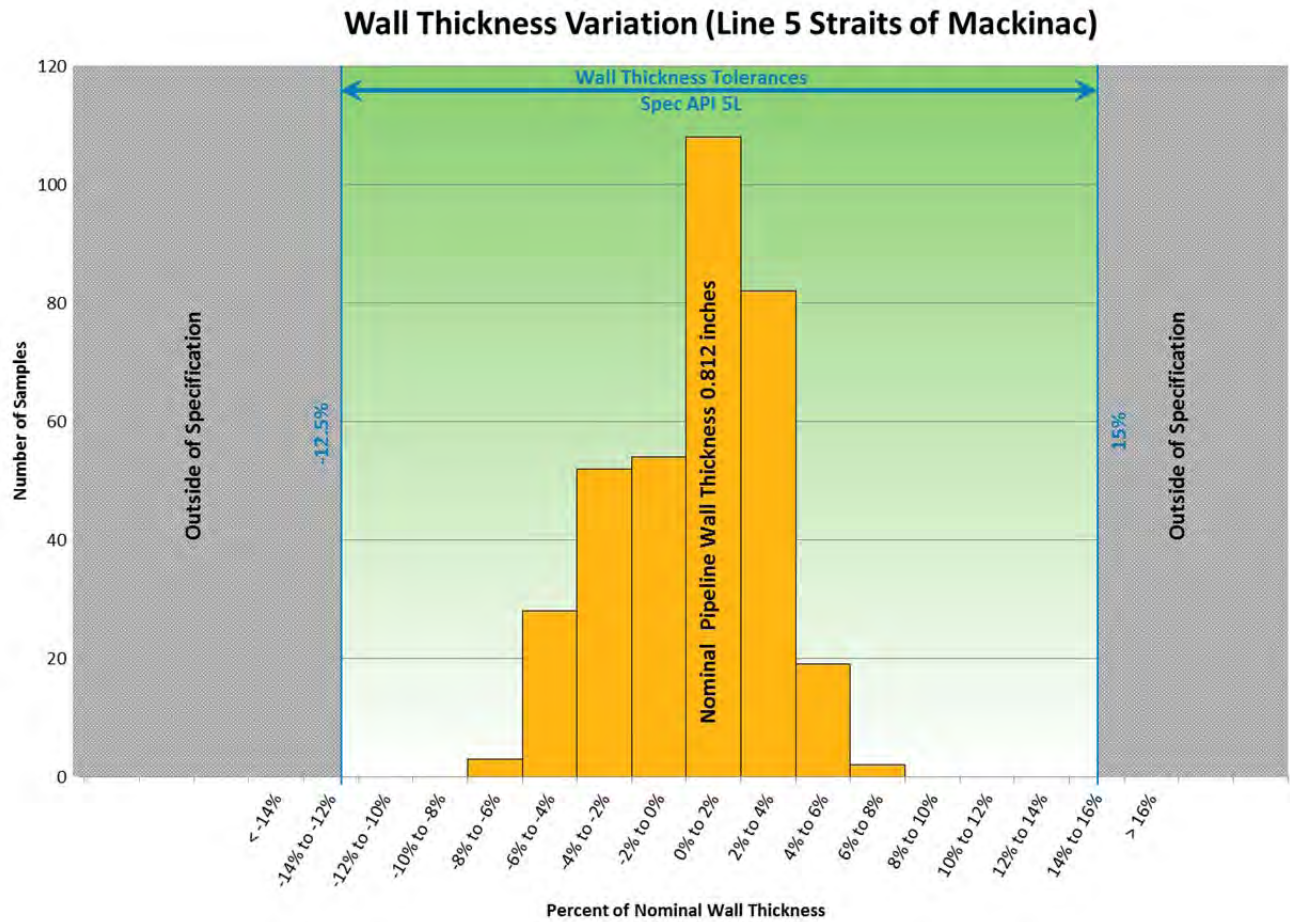


Figure 2: Pipe wall thickness distribution at coating repair locations.

Appendix A – Anchor Inspection Work Plan



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September 15, 2017

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**Re: Line 5 Dual Pipelines at the Straits of Mackinac and Enbridge Response to Request
Letter dated September 1, 2017 – Requested Action 2**

Dear Attorney General Schuette, Director Grether and Director Creagh:

This letter responds to Requested Action 2 that is specified in your letter dated September 1, 2017. Please find enclosed for the State's review and approval, a copy of Enbridge's "Coating Inspection in the Vicinity of Installed Pipeline Anchors Work Plan," including appendices. The Work Plan sets forth, in accordance with your September 1 letter, procedures to inspect each area on the Line 5 Dual Pipelines crossing of the Straits where a pipeline anchor has been installed to determine whether and to what extent the external coating has been damaged, including a schedule for implementation.

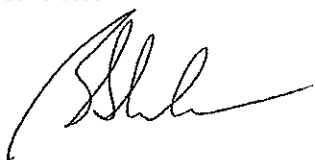
The Honorable Bill Schuette, Director Grether and Director Creagh
September 15, 2017
Page 2

Enbridge has the personnel and resources available to begin the coating inspections immediately and plans are in place to commence the work in light of the lateness of the work season in the Straits. We look forward to the State's approval of the Work Plan.

Please notify us if you have any comments or questions regarding the Work Plan.

Sincerely,

ENBRIDGE ENERGY, LIMITED PARTNERSHIP
By Enbridge Pipelines (Lakehead) L.L.C.
Its General Partner

A handwritten signature in black ink, appearing to read 'B. Shamla', with a long horizontal flourish extending to the right.

Bradley F. Shamla
Vice President, U.S. Operations

cc: Valerie Brader, Executive Director, Michigan Agency for Energy

Enclosure



**Enbridge Line 5
Straits of Mackinac, MI**

Coating Inspection in the Vicinity of Installed Pipeline Anchors Work Plan

Enbridge Energy, Limited Partnership

Submitted: September 15, 2017



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TABLES

Table 1: Anchor Locations (Inspection Project Scope)

APPENDICES

Appendix A. Video Inspection Report Form

Appendix B. Diver Inspection Report Form



LIST OF ACRONYMS

CP	Cathodic Protection
CPDM	Cathodic Protection Data Management
CSE	Copper Sulphate Electrode
DFT	Dry Film Thickness
Enbridge	Enbridge Energy, Limited Partnership
mV	Millivolt
ROV	Remote Controlled Vehicle
USEPA	United States Environmental Protection Agency

DEFINITIONS

Area(s) of Interest

An Area of Interest is a part of the pipeline where, based on visual inspection, (i) the normal (local) Biota is unexpectedly absent or (ii) there is evidence of possible coating damage (e.g., Dislodged Coating and/or potential Holiday). Disturbed Areas (see definition below) are not Areas of Interest as the lack of Biota can be attributed to past maintenance and monitoring activities.

Biota

Animals and plants living around and on the pipelines through the Straits (e.g. mussels, periphyton, algae, microbes).

Dislodged Coating

An area on the pipeline where, based on visual inspection, the outer wrap of the coating appears to have been dislodged or removed without exposure of the pipe steel.

Disturbed Area

An area on the pipeline where past maintenance and monitoring activities resulted in the removal of Biota but does not represent damage to the pipe coating.

Holidays

An area on the pipeline where there is a discontinuity in the coating that exposes the pipe steel to the environment.

Undisturbed Area

An area on the pipeline where there is no evidence of any loss of Biota (or pipe coating).



1.0 Introduction

Pursuant to the September 1, 2017 letter from the State of Michigan ("September 1 Letter"), Enbridge has prepared this "Coating Inspection in the Vicinity of Pipeline Anchors - Work Plan". Enbridge anticipates the information obtained from this investigation will complement the information gathered during integrity monitoring activities already being undertaken by Enbridge.

The federal consent decree (Case 1:16-cv-00914, ECF No. 14 entered May 23, 2017), entered between Enbridge Energy, Limited Partnership (Enbridge) and the United States requires that Enbridge initiate a detailed investigation into the potential for marine organisms to impact the integrity of the two 20-inch diameter pipelines ("Dual Pipelines") that span the Straits of Mackinac ("Straits") and form part of Enbridge's Lakehead System Line 5 pipeline ("Line 5"). That investigation is detailed in Enbridge's Biota Investigation Work Plan (BI Work Plan), which was prepared for and, in June 2017, approved by the United States Environmental Protection Agency ("USEPA").

The BI Work Plan identified eighteen (18) Areas of Interest for investigation, as well as three additional sites for coating damage investigation. As Enbridge previously advised the State, one of these additional sites (WAS-1 in Span W-68A) was coincident with an area of the west pipeline where a pipe support anchor was installed in 2014. Dive inspection at this site confirmed four small areas of coating loss (with a total area of 0.38 square feet). Electrical measurements indicated high levels of cathodic protection, and no external metal loss was observed.

In the September 1 Letter, the State makes note of the fact that at least one of the investigated sites with a coating gap was adjacent to an area where a screw anchor had been installed. The State expresses concern as to whether the methods used for installation of such anchors might have resulted in damage to the coating of the pipeline. The State has thus requested that Enbridge submit a plan, subject to approval by the State, for an investigation of anchor sites. This Work Plan is intended to fulfill that requirement.



2.0 Michigan AG Requested Actions

The September 1 Letter requests that Enbridge undertake the following Requested Actions:

1. Within 7 days from the date of this letter, provide the State with an interim report describing each location where damage to the external coating has been observed, the extent and nature of the damage, and any available documentation, including, without limitation, photographs and videos.
2. Within 14 days from the date of this letter, provide the State with a plan to inspect each area on the pipeline where a pipeline anchor was installed to determine whether and to what extent the external coating has been damaged. The plan should include an implementation schedule and is subject to approval by the State.
3. Within 21 days from the date of this letter, provide the State with a plan detailing the materials, methods and procedures Enbridge will used to repair all areas where damage to the external coating is identified. The plan should include an implementation schedule and is subject to approval by the state. We expect that the Schedule would provide for completion of repairs in the identified areas as soon as possible, and in any event within the same construction season during which they are identified."

Enbridge responded to Requested Action no. 1 in a letter to the State dated September 8, 2017. This Work Plan is submitted in response to Requested Action no. 2. Enbridge intends to separately respond to Requested Action no. 3.



3.0 Details of Inspection Plan

Since 2002, Enbridge has installed 128 pipe support anchors on the Dual Pipelines. Table 1 provides a listing, GPS coordinates, and the depth of all anchors that have been installed, which will be inspected as part of this Inspection Plan.

3.1 ROV Examination

A ROV will be deployed to record detailed video on both sides of each of the Dual Pipelines for a span of 20 feet on each side of the target anchor. The video log will be documented to show the direction of the ROV (North or South). The first pass will be conducted on the east or west side of each pipeline based on existing water currents at the time of the inspection – the first pass will be completed in a manner that minimizes interference by suspended sediment that may be stirred up by the ROV's propulsion systems.

A second pass with the ROV will be completed on the opposite side of each pipeline.

The swimming velocity of the ROV will be maintained at a sufficiently low rate to enable detailed inspection by the operator; and the visual image of the pipe should be maintained at approximately 30% of the video field of view unless close-up imaging is required.

In the event that areas of interest, holidays or deposits are found, the ROV and camera system will be carefully navigated to record the nature of the feature. The ROV operator will document these inspections on the ROV Inspection Form for L5 Straits of Mackinac ("ROV Inspection Form"), which is enclosed as Appendix A.

In the event that water currents or general turbidity in the water preclude good quality inspection, the same shall be noted on the ROV Inspection Form. In these cases, a more extensive dive examination will be conducted, in accordance with the diver examination measures described below in Section 3.2.

3.2 Diver Examination

Following the completion and analysis of the video inspections recorded by the ROV, a diver will be deployed to each anchor to conduct a detailed manual examination of the pipe support anchor and adjacent pipe coating. This inspection will span approximately six (6) feet axially



on both sides of the pipe support anchor, for a total inspection of approximately 12 feet. In cases where the previous ROV examination produced insufficiently good quality images for video analysis, the diver examination will include an additional 14 axial feet of inspection on each side of the anchor (extending the full 20 feet of the ROV inspection scope)¹.

The diver will first manually remove biota from the pipe (+/- 6 feet of the anchor location only) and will communicate observations to the dive-supervisor onboard the support boat/barge. The general and detailed observations will be recorded on the Diver Inspection Form for L5 Straits of Mackinac ("Diver Inspection Form", which is enclosed as Appendix B).

The Diver Inspection Form will include detailed documentation of locations that are found to be disturbed areas, dislodged areas, coating holidays, or contain deposits. Location data shall include the feature classification (e.g., dislodged coating, coating holiday, deposits, if any), the circumferential orientation of the feature (o'clock position), size of the feature, and approximate distance of the feature from the pipe support anchor. Feature classification and location data shall be recorded for all features observed within the span of the diver inspection.

3.2.1 Coating Thickness Measurements

In the absence of any features in the coating at a pipe support anchor location, the diver shall record at least two representative coating thickness readings within six (6) feet on each side of the anchor (a total of four (4) readings).

In the presence of: (i) disturbed areas, (ii) dislodged areas, (iii) coating holidays, and/or (iv) deposits, coating thickness measurements will be obtained from at least one (1) representative location within each feature area. Larger features may have two (2) to three (3) readings obtained depending on feature size. For comparison to intact coating, adjacent coating thickness measurements will also be obtained from four (4) locations surrounding the feature within two (2) inches of the feature, and a second set of adjacent four (4) coating thickness measurements will be obtained approximately 12 inches outside the feature of interest.

¹ This additional diver inspection does not require removal of biota unless missing coating is observed.



3.2.2 CP Potential Measurements

The Polatrak Cathodic Protection (CP) gun will be employed to record CP potentials. The resulting data will be used to establish the existence of bare metal on the pipelines. CP measurements will be obtained from areas of obvious bare metal, suspected holidays (with Dry Film Thickness (DFT) thickness less than the minimum resolvable measurement of the DFT gauge), as well as through any deposits that have formed on the pipe wall regardless of indicated DFT measurement. Because the CP gun's angled probe is designed to penetrate thin film coatings, firm continuous pressure is to be applied at bare metal, suspected holidays, and deposits by the diver. Sharp impact or excessive pressure shall not be applied by the diver, as this would damage intact pipe coating.

3.2.3 Deposit Removal

Where white calcareous deposits are encountered, the diver will use a non-metallic scraper to remove the deposit to expose the pipe surface underneath.

The surface of the pipe will be cleaned and any exposed steel shall be visually assessed to determine the amount of bare steel expressed as a percentage of the original white deposit covered area. In the divers/ROV operators opinion, the percentage of exposed area will be evaluated and recorded with maximum precision of 10% area (i.e., 0, 10, 20, ...90, 100).

If bare metal is visually confirmed, then the Polatrak CP gun shall be used to re-record cathodic protection measurements (per section 3.2.2) from the same approximate locations as originally recorded.

3.2.4 Criteria for Establishing Coating Defects

Enbridge's Dual Pipelines through the Straights were designed with: (i) a corrosion preventing enamel coating system, which is intended to isolate the pipeline from the lake water; and (ii) a fibre reinforced outer wrap, which is intended to prevent damage to the protective enamel coating during pipeline installation. Areas of damaged or missing outer wrap that have been confirmed by residual thickness measurements greater than 40 mils do not constitute a repairable coating defect.



A coating holiday (area of exposed metal) can only be established by clear visual evidence of bare metal (alone), or coating thickness measurements less than 25 mils in conjunction with CP potentials that are more electronegative than -600mV CSE.

The divers that will be used on this project must be Operator Qualified (OQ) certified for CP readings. Data collected during this investigation will be evaluated by one of Enbridge's NACE Accredited CP Specialists prior to incorporation into Enbridge's Cathodic Protection Data Management (CPDM) system.



4.0 Quality Assurance/Quality Control

Quality assurance/quality control measures will be implemented to ensure the integrity of samples and measurements that are generated as a result of actions required under this Work Plan. Such measures shall include, but not be limited to:

- Project organization: the Project Manager, subcontractors, and all parties taking part in this effort will be identified and their roles will be articulated prior to commencing efforts. Planning and coordination calls and/or meetings will take place with divers, members of the integrity team, biologists, etc., to ensure the proper execution of sampling and data collection protocol.
- All instruments will be calibrated prior to and throughout their use according to manufacturer recommendations.
- Video photography and audio communication (between divers and personnel on boats) will be utilized to ensure proper documentation of conditions and sampling requirements.
- Documentation and records: field notes, laboratory reports, etc., will be compiled and saved at secure locations in hard copy and/or electronic format.
- Data validation: Data generated through the course of these efforts will be routinely evaluated for accuracy, precision, representativeness, and completeness.
- Reporting: Reports and project deliverables will be edited, reviewed, and finalized prior to submittal. A final report detailing the findings will be provided to the State after completion of the anchor coating inspections and assessment of the data.



5.0 Implementation Schedule

Enbridge will implement this Work Plan in accordance with the schedule set forth below. This Plan is also highly dependent on weather conditions allowing safe access to perform the work. Logistical requirements and seasonal limitations may necessitate completing some of the anchor inspection efforts in 2018.

- September 14, 2017: Commence ROV inspections
- October 1, 2017: Commence Diver inspections
- November 30, 2017: Anticipated end of safe seasonal access
- May, 2018: Anticipated earliest seasonal access if dive inspections cannot be fully completed in 2017.



TABLES

Table 1: Anchor Locations

Line 5 Straits Pipeline - East			
Anchor Identification	Water Depth (ft)	Latitude	Longitude
E-1	73	REDACTED	REDACTED
E-2	74		
E-3	73		
E-4	74		
E-5	75		
E-6	83		
E-7	88		
E-8	88		
E-9	87		
E-10	86		
E-11	86		
E-12	80		
E-13	78		
E-14	82		
E-15	81		
E-16	91		
E-17	95		
E-18	97		
E-19	99		
E-20	101		
E-21	107		
E-22	107		
E-23	107		
E-24	106		
E-25	103		
E-26	105		
E-27	104		
E-28	114		
E-29	116		
E-30	117		
E-31	124		
E-32	127		
E-33	131		
E-34	136		
E-35	139		
E-36	142		
E-37	143		
E-38	148		
E-39	148		
E-40	151		
E-41	150		
E-42	145		
E-43	133		
E-44	139		
E-45	143		
E-46	147		
E-47	195		
E-48	219		
E-49	227		
E-50	230		
E-51	233		
E-52	231		
E-53	229		
E-54	228		
E-55	224		
E-56	220		
E-57	221		
E-58	221		
E-59	220		
E-60	220		
E-61	215		
E-62	209		
E-63	188		
E-64	179		
E-65	169		
E-66	160		
E-67	69		

Line 5 Straits Pipeline - West			
Anchor Identification	Water Depth (ft)	Latitude	Longitude
W-1	78	REDACTED	REDACTED
W-2	78		
W-3	76		
W-4	75		
W-5	73		
W-6	91		
W-7	93		
W-8	109		
W-9	116		
W-10	120		
W-11	123		
W-12	126		
W-13	127		
W-14	136		
W-15	138		
W-16	137		
W-17	137		
W-18	138		
W-19	137		
W-20	136		
W-21	133		
W-22	130		
W-23	128		
W-24	124		
W-25	125		
W-26	141		
W-27	146		
W-28	165		
W-29	171		
W-30	173		
W-31	177		
W-32	180		
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W-34	173		
W-35	178		
W-36	183		
W-37	195		
W-38	194		
W-39	227		
W-40	235		
W-41	235		
W-42	241		
W-43	245		
W-44	249		
W-45	235		
W-46	233		
W-47	224		
W-48	224		
W-49	222		
W-50	222		
W-51	215		
W-52	210		
W-53	193		
W-54	163		
W-55	158		
W-56	135		
W-57	81		
W-58	77		
W-59	76		
W-60	76		
W-61	75		



APPENDICES



Appendix A – Video Inspection Report Form

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:		Contractor:	
AFE / W.O.#:		ROV Operator:	
Pipe Support Anchor:		Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

South End of Affected and Non-Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

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Date:

Frame(HH:MM:SS)

Date:

Frame(HH:MM:SS)

Comments:

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

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Date:

Frame(HH:MM:SS)

Date:

Frame(HH:MM:SS)

Comments:

	ROV Inspection Form for L5 Straits of Mackinac
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<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
Date:		Frame(HH:MM:SS)		Date:		Frame(HH:MM:SS)	


Comments:

Anchor

<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
Date:		Frame(HH:MM:SS)		Date:		Frame(HH:MM:SS)	
Comments:							

Overall North Affected Area

<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
---	--	--	--	--	--	--	--

	ROV Inspection Form for L5 Straits of Mackinac
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Date:		Frame(HH:MM:SS)		Date:		Frame(HH:MM:SS)	
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Comments:

North End of Affected and Non-Affected Area


*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

Date:		Frame(HH:MM:SS)		Date:		Frame(HH:MM:SS)	
-------	--	-----------------	--	-------	--	-----------------	--

Comments:

Feature #1


*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

	ROV Inspection Form for L5 Straits of Mackinac
Date: <input style="width: 50px;" type="text"/>	Frame(HH:MM:SS) <input style="width: 50px;" type="text"/>
Date: <input style="width: 50px;" type="text"/>	Frame(HH:MM:SS) <input style="width: 50px;" type="text"/>

Feature #2			
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>			
Date: <input style="width: 50px;" type="text"/>	Frame(HH:MM:SS) <input style="width: 50px;" type="text"/>	Date: <input style="width: 50px;" type="text"/>	Frame(HH:MM:SS) <input style="width: 50px;" type="text"/>

Feature #3			
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>			

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	ROV Inspection Form for L5 Straits of Mackinac
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		<table border="1"> <tr> <td>Date:</td> <td></td> <td>Frame(HH:MM:SS)</td> <td></td> <td>Date:</td> <td></td> <td>Frame(HH:MM:SS)</td> <td></td> </tr> </table>	Date:		Frame(HH:MM:SS)		Date:	
Date:		Frame(HH:MM:SS)		Date:		Frame(HH:MM:SS)		

Feature #4								
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>								
		<table border="1"> <tr> <td>Date:</td> <td></td> <td>Frame(HH:MM:SS)</td> <td></td> <td>Date:</td> <td></td> <td>Frame(HH:MM:SS)</td> <td></td> </tr> </table>	Date:		Frame(HH:MM:SS)		Date:	
Date:		Frame(HH:MM:SS)		Date:		Frame(HH:MM:SS)		



Appendix B – Diver Coating Inspection Report Form



Diver Inspection Form for L5 Straits of Mackinac

General Information

Date:		Diver:	
AFE / W.O.#:		Company Rep / Inspector:	
Pipe Support Anchor:		Water Depth (ft):	
Longitude:		Latitude:	


Diver Inspection Record

Feature Number	Location of Feature (w.r.t. pipe support)	Circumferential Position of the Feature (o'clock position)	Measured Feature size (ft ²)	Visual Classification of Feature	
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area
				<input type="checkbox"/> Dislodged Area <input type="checkbox"/> Deposit	<input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Disturbed Area

NB: insert table rows as necessary to identify all features observed. Feature numbering starts at top row (for detailed video images)

Biota
present:


☐ YES ☐ NO

	Diver Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input type="checkbox"/> NO	Lake floor location wrt pipe:	
Comments/Issues/Discussion		
Contractor Signature		Enbridge Representative/ Inspector Signature

Coating Gauge Information			
Manufacturer:	Elcometer Inspection Equip	Product:	211 Coating Thickness Gauge
Last Calibrated:	08/09/2017	Next Calibration Due:	08/09/2018
Gauge verified prior to use:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
Coating Thickness Inspection Data (complete this table in the absence of any Features)			
Location	Coating Thickness (mil)	Distance from Anchor (ft)	Location on Pipe (o'clock)
North of Anchor #1			
North of Anchor #2			
South of Anchor #1			
South of Anchor #2			
Average Thickness			

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	Diver Inspection Form for L5 Straits of Mackinac
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Cathodic Protection and Coating Measurements (for Feature # __) ¹					
CP Reading #1 (mV) <small>(north end of feature)</small>	N/R	CP Reading #2 (mV) <small>(center of feature)</small>	N/R	CP Reading #3 (mV) <small>(south end of feature)</small>	N/R
DFT #1 (mil) <small>(north end of feature)</small>	N/R	DFT #2 (mil) <small>(center of feature)</small>	N/R	DFT #3 (mil) <small>(south end of feature)</small>	N/R
(record #2 for features < 2" long; record #1 and #3 for features 2"-8" long; record #1, #2 and #3 for features >8" long)					
Temperature (°F)		DFT Adjacent to Feature (mil) <small>(~2" away from edge)</small>		DFT Adjacent to Feature (mil) <small>(~8"-12" away from edge)</small>	
Provide 1 to 2 photos of feature, below: Included the date and time stamps associated with video surveillance.					
Date:		Frame(HH:MM:SS)		Date:	

Note: CP readings will not be taken at features classified as disturbed areas or dislodged areas.

¹ Copy this page for each feature identified in the preceding page table.

Appendix B – AIWP ROV and Diver Inspection Forms

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	9-14-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-1 (E-74A / E-74B South)	Water Depth (ft):	■
Longitude:	■	Latitude:	■

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Traveling S/N	4:41	13:03:26
	Inspect East, Top, and West of Pipe	23:11	13:22:00

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature		Video Reference (hh:mm:ss)
1	12:00 on Pipe, Below Anchor	<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	Time: 1:07:48pm Video: 8:51
		<input checked="" type="checkbox"/> Deposit	<input type="checkbox"/> Other	
2	12:00 on Pipe, 10' North of anchor	<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	Time: 1:18:35pm Video: 19:38
		<input checked="" type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)		Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1: Potential deposit located at 12:00 on pipe, directly below anchor installation.

Feature 2: Potential deposit located at 12:00 on pipe, approx. 10' North of Anchor

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-14-17

Frame(HH:MM:SS)

1:03:59

Date:

Frame(HH:MM:SS)

South End of Affected and Non-Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-14-17

Frame(HH:MM:SS)

13:03:55

Date:

Frame(HH:MM:SS)



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-14-17	Frame(HH:MM:SS)	13:12:00	Date:	9-14-17	Frame(HH:MM:SS)	13:13:30
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Feature #2

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-14-17	Frame(HH:MM:SS)	13:18:35	Date:	9-14-17	Frame(HH:MM:SS)	13:18:45
-------	---------	-----------------	----------	-------	---------	-----------------	----------


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Partially Buried
--	--	------------------


Comments/Issues/Discussion

Feature 1: Potential deposit located at approximately 11:00 position on pipe and 10' North of Anchor.

	12/12/2017
Contractor Signature	Date

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
---	---



Overall South Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="100 485 354 541"> <p>9/14/2017 1:23:13 PM E-74A / E-74B South</p> </div>  <div data-bbox="100 951 266 982"> <p>Temp: 66.7 °F</p> </div>							
Date:	9-14-17	Frame(HH:MM:SS)	13:23:13	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							





Overall North Affected Area	
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>	

	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
---	---

<div data-bbox="100 224 407 287"> <p>9/14/2017 1:38:58 PM E-74B South / E-74B North</p> </div>  <div data-bbox="100 695 261 726"> <p>Temp: 66.8 °F</p> </div> <div data-bbox="623 625 743 730">  </div>							
Date:	9-14-17	Frame(HH:MM:SS)	13:38:58	Date:		Frame(HH:MM:SS)	

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

<div data-bbox="100 1022 407 1085"> <p>9/14/2017 1:35:26 PM E-74B South / E-74B North</p> </div>  <div data-bbox="100 1493 261 1524"> <p>Temp: 66.6 °F</p> </div> <div data-bbox="623 1423 743 1528">  </div>				<div data-bbox="823 1022 1133 1085"> <p>9/14/2017 1:36:08 PM E-74B South / E-74B North</p> </div>  <div data-bbox="823 1493 984 1524"> <p>Temp: 66.7 °F</p> </div> <div data-bbox="1356 1434 1476 1539">  </div>			
Date:		Frame(HH:MM:SS)		Date:		Frame(HH:MM:SS)	

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	9-14-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-3 (E-74B North / E-74C)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	ROV inspecting South to North	6:22	13:42:09
		20:00	13:55:48

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

No Holidays, Areas of Interest, or any other unusual conditions observed around this anchor.

12/12/2017

Contractor Signature

Date

	ROV Inspection Form for L5 Straits of Mackinac
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Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

<div> <div>9/14/2017 1:46:27 PM E-74B North / E-74 C</div>  <div>Temp: 67.0 °F</div> </div>							
Date:	9-14-17	Frame(HH:MM:SS)	13:46:27	Date:		Frame(HH:MM:SS)	

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

<div> <div>9/14/2017 1:42:12 PM E-74B South / E-74B North</div>  <div>Temp: 66.8 °F</div> </div>							
Date:	9-14-17	Frame(HH:MM:SS)	13:42:12	Date:		Frame(HH:MM:SS)	



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/14/2017 1:52:25 PM
E-74B North / E-74 C



Temp: 66.8 °F



Date:

9-14-17

Frame(HH:MM:SS)

13:52:25

Date:

Frame(HH:MM:SS)

General Information

ROV Visual Inspection Log

ROV Visual Inspection Results

[illegible]



ROV Inspection Form for L5 Straits of Mackinac

Dislodged coating observed on
the lake floor: ☐ YES ☒ NO

Pipe Location w.r.t. Lake Floor:
(ie. partially buried, fully suspended)

Fully suspended

Comments/Issues/Discussion

There were no holidays, areas of interest, or other unusual characteristics observed around this anchor

12/12/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/14/2017 2:04:08 PM
E-71A / E-71B



Temp: 64.4 °F



Date:	9-14-17	Frame(HH:MM:SS)	14:04:08	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/14/2017 2:01:56 PM
E-71A / E-71B



Temp: 65.2 °F



Date:	9-14-17	Frame(HH:MM:SS)	14:01:56	Date:		Frame(HH:MM:SS)	
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ROV Inspection Form for L5 Straits of Mackinac

Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/14/2017 2:11:29 PM
E-71A / E-71B



Temp: 63.0 °F

Date: 9-14-17

Frame(HH:MM:SS)

14:11:29

Date:

Frame(HH:MM:SS)

Comments:

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	9-14-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-5 (E-71B / E72)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect from South to North	41:20	14:17:06
		59:45	14:35:32

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
1	12:00 on Pipe, approx. 5' south of anchor	<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input checked="" type="checkbox"/> Deposit <input type="checkbox"/> Other	
2	9:00 on pipe, approx.. 5' North of anchor	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
3	9:00 on pipe, approx. 10' north of anchor	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1: Potential deposit lies at the 12:00 position on pipe, approx. 5' south of anchor.

Feature 2: Possible dislodged coating at the 9:00 position on pipe, approx. 5' north of anchor.

Feature 3: Possible dislodged coating at the 9:00 position on pipe, approx. 10' north of anchor.

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/14/2017 2:20:44 PM
E-71B / E-72



Temp: 61.5 °F

Date: 9-14-17 Frame(HH:MM:SS) 14:20:44

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/14/2017 2:21:47 PM
E-71B / E-72




Temp: 61.4 °F

Date: 9-14-17 Frame(HH:MM:SS) 14:21:47

Date: Frame(HH:MM:SS)

	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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<p>Comments:</p>

Overall North Affected Area							
<p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="94 527 354 590"> <p>9/14/2017 2:28:26 PM E-71B / E-72</p> </div> 							
Date:	9-14-17	Frame(HH:MM:SS)	14:28:26	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/14/2017 2:22:40 PM
E-71B / E-72



Temp: 61.3 °F

9/14/2017 2:22:16 PM
E-71B / E-72



Temp: 61.3 °F

Date: 9-14-17

Frame(HH:MM:SS)

14:22:40

Date: 9-14-17

Frame(HH:MM:SS)

14:22:16

Feature #2

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/14/2017 2:31:17 PM
E-71B / E-72



Temp: 60.8 °F

9/14/2017 2:30:46 PM
E-71B / E-72



Temp: 60.8 °F

Date: 9-14-17

Frame(HH:MM:SS)

14:31:17

Date: 9-14-17

Frame(HH:MM:SS)

14:30:46

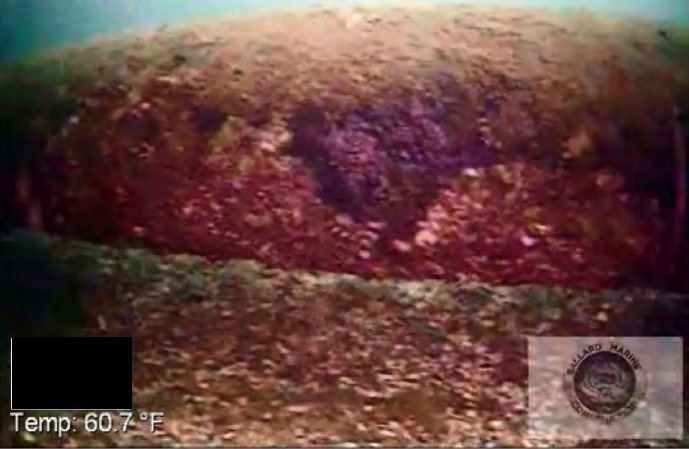


ROV Inspection Form for L5 Straits of Mackinac

Feature #3

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/14/2017 2:33:11 PM
E-71B / E-72



Temp: 60.7 °F

9/14/2017 2:30:07 PM
E-71B / E-72



Temp: 60.8 °F

Date:	9-14-17	Frame(HH:MM:SS)	14:33:11
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Date:	9-14-17	Frame(HH:MM:SS)	14:30:07
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[illegible]



ROV Inspection Form for L5 Straits of Mackinac

Dislodged coating observed on
the lake floor: ☐ YES ☒ NO

Pipe Location w.r.t. Lake Floor:
(ie. partially buried, fully suspended)

Fully suspended

Comments/Issues/Discussion

There were no holidays, area's of interest, or any other unusual characteristics observed around this anchor.

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-18-17 Frame(HH:MM:SS) 9:23:42

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-18-17 Frame(HH:MM:SS) 9:25:21

Date: Frame(HH:MM:SS)



ROV Inspection Form for L5 Straits of Mackinac

Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 9:39:09 AM
E-25A / E-25B



Date: 9-18-17

Frame(HH:MM:SS)

9:39:09

Date:

Frame(HH:MM:SS)

Comments:

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	9-18-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-7 (E-23A South / E-23A North)	Water Depth (ft):	█
Longitude:	█	Latitude:	█

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 2 – 0:06:02	9:52:45
		Video 2 – 0:39:36	10:25:09

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
1	5' South, Top of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	9:58:04
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1 – Potential Deposit. 5' south of anchor, top of pipe. Approx. 2-3" in size.
 Video Reference: Video 2 – 00:11:21 Time: 9:58:04

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 9:53:22 AM
E-23A South / E-23A North

Temp: 57.5 °F



Date: 9-18-17 Frame(HH:MM:SS) 9:53:22

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 10:08:33 AM
E-23A South / E-23A North

Temp: 55.9 °F



Date: Frame(HH:MM:SS)

Date: Frame(HH:MM:SS)



ROV Inspection Form for L5 Straits of Mackinac

Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 10:07:23 AM
E-23A South / E-23A North



Temp: 55.9 °F

9/18/2017 10:25:06 AM
E-23A South / E-23A North



Temp: 56.3 °F

Date: 9-18-17 Frame(HH:MM:SS) 10:07:23

Date: 9-18-17 Frame(HH:MM:SS) 10:25:06

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 9:58:48 AM
E-23A South / E-23A North



9/18/2017 9:59:26 AM
E-23A South / E-23A North



Date:	9-18-17	Frame(HH:MM:SS)	9:58:48
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Date:	9-18-17	Frame(HH:MM:SS)	9:59:26
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	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	9-18-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-8 (E-23A North – E23B South)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 2 – 0:40:56	10:26:30
		Video 2 – 1:01:59	10:47:32

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

There were no holidays, area's of interest, or other unusual characteristics observed at this anchor.

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 10:27:49 AM
E-23A North / E-23 B South



Temp: 56.2 °F

Date: 9-18-17 Frame(HH:MM:SS) 10:27:49

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 10:27:24 AM
E-23A North / E-23 B South



Temp: 56.2 °F

Date: 9-18-17 Frame(HH:MM:SS) 10:27:24

Date: Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 10:39:14 AM
E-23A North / E-23 B South



Temp: 55.7 °F

Date: 9-18-17

Frame(HH:MM:SS)

10:39:14

Date:

Frame(HH:MM:SS)

Comments:

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	9-18-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-9 (E-23B South / E-23B North)	Water Depth (ft):	█
Longitude:	█	Latitude:	█

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 2 – 1:05:04	10:50:37
		Video 2 – 1:29:52	11:15:25

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed at this anchor.

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 10:51:44 AM
E-23 B South / E-23 B North



Date: 9-21-17 Frame(HH:MM:SS) 10:51:44

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 10:51:26 AM
E-23 B South / E-23 B North



Date: 9-18-17 Frame(HH:MM:SS) 10:51:26

Date: Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-18-17	Frame(HH:MM:SS)	11:14:44	Date:		Frame(HH:MM:SS)	
Comments:							

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	9-18-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-10 (E-28A South – E28A North)	Water Depth (ft):	█
Longitude:	█	Latitude:	█

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 3 – 0:03:56	11:39:41
		Video 3 – 0:34:35	12:10:20

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
1	0-10' south, top half of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	11:44:16
2	0-10' north, top half of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	11:53:59
3	1' North, top of pipe	<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input checked="" type="checkbox"/> Deposit <input type="checkbox"/> Other	11:59:32
4	10' North, top of pipe	<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input checked="" type="checkbox"/> Deposit <input type="checkbox"/> Other	12:01:30
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1: Possible dislodged coating on South side of anchor. 0-10' south of anchor from 9 to 3o'clock position on pipe(top of pipe)

Video Reference: Video 3 – 0:08:31 Time: 11:44:16

Feature 2: Possible dislodged coating on North side of anchor. 0-10' North of anchor from 9 to 4o'clock position on pipe (top and east side of pipe)

Video Reference: Video 3 – 0:18:11 Time: 11:53:59

Feature 3: Potential deposit. 1' North of Anchor, at 12 o'clock position. 2 or 3 spots, each approx. 1"-2" diameter.

Video Reference: Video 3 – 0:23:47 Time: 11:59:32

Feature 4: Potential deposit. 10' North of anchor, at 12 o'clock position. Approx. 1-2" in diameter.

Video Reference: Video 3 – 0:25:44 Time: 12:01:30

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 11:40:44 AM
E-28A South / E-28A North



Date:	9-18-17	Frame(HH:MM:SS)	11:40:44	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 11:43:25 AM
E-28A South / E-28A North



Date:	9-18-17	Frame(HH:MM:SS)	11:43:25	Date:		Frame(HH:MM:SS)	
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Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 12:11:01 PM
E-28A South / E-28A North



9/18/2017 12:09:59 PM
E-28A South / E-28A North



Date: 9-18-17 Frame(HH:MM:SS) 12:11:01

Date: 9-18-17 Frame(HH:MM:SS) 12:09:59

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-18-17 Frame(HH:MM:SS) 11:44:16

Date: Frame(HH:MM:SS)

Feature #2

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-18-17 Frame(HH:MM:SS) 11:59:27

Date: Frame(HH:MM:SS)



ROV Inspection Form for L5 Straits of Mackinac

Feature #3

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 11:59:46 AM
E-28A South / E-28A North



Temp: 57.0 °F

9/18/2017 12:00:01 PM
E-28A South / E-28A North



Temp: 57.0 °F

Date: 9-18-17 Frame(HH:MM:SS) 11:59:46

Date: 9-18-17 Frame(HH:MM:SS) 12:00:01

Feature #4

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 12:03:41 PM
E-28A South / E-28A North



Temp: 56.8 °F

9/18/2017 12:01:22 PM
E-28A South / E-28A North



Temp: 56.9 °F

Date: 9-18-17 Frame(HH:MM:SS) 12:03:41

Date: 9-18-17 Frame(HH:MM:SS) 12:01:22

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	9-18-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-11 (E-28A North / E28B)	Water Depth (ft):	█
Longitude:	█	Latitude:	█

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 3 – 0:36:52	12:12:38
		Video 3 – 0:57:58	12:33:43

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 12:14:04 PM
E-28A North / E-28B

Temp: 56.8 °F



Date: 9-18-17

Frame(HH:MM:SS)

12:14:04

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 12:13:36 PM
E-28A North / E-28B

Temp: 56.8 °F



Date: 9-18-17

Frame(HH:MM:SS)



12:13:36

Date:

Frame(HH:MM:SS)

	ROV Inspection Form for L5 Straits of Mackinac
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Comments:

Overall North Affected Area							
For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.							
<div data-bbox="94 554 789 1066"> <div>9/18/2017 12:24:18 PM E-28A North / E-28B</div>  <div>Temp: 56.6 °F</div> </div>				<div data-bbox="816 554 1511 1077"> <div>9/18/2017 12:27:41 PM E-28A North / E-28B</div>  <div>Temp: 56.9 °F</div> </div>			
Date:	9-18-17	Frame(HH:MM:SS)	12:24:18	Date:	9-18-17	Frame(HH:MM:SS)	12:27:41
Comments:							

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	9-18-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-12 (E-30A / E-30B)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 3 – 1:07:01	12:42:47
		Video 3 – 1:29:34	13:05:20

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature		Video Reference (hh:mm:ss)
1	25' South, top and east side	<input checked="" type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	12:44:02
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
2	20' South, top and west	<input checked="" type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	12:53:04
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	



ROV Inspection Form for L5 Straits of Mackinac

Dislodged coating observed on
the lake floor: ☐ YES ☒ NO

Pipe Location w.r.t. Lake Floor:
(ie. partially buried, fully suspended)

Fully Suspended

Comments/Issues/Discussion

Feature 1: Possible dislodged coating. Approx. 25' south of anchor at east and top of pipe.
Video Reference: Video 3 – 1:08:10 Time: 12:44:02

Feature 2: Possible dislodged coating. Approx. 20' south of anchor at top and west of pipe.
Video Reference: Video 3 – 1:17:18 Time: 12:53:04

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 12:46:43 PM
E-30A / E-30B



Temp: 58.5 °F

Date: 9-18-17 Frame(HH:MM:SS) 12:46:43

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 12:51:03 PM
E-30A / E-30B



Temp: 58.4 °F

Date: 9-18-17 Frame(HH:MM:SS) 12:51:03

9/18/2017 1:04:59 PM
E-30A / E-30B



Temp: 58.0 °F

Date: 9-18-17 Frame(HH:MM:SS) 13:04:59



ROV Inspection Form for L5 Straits of Mackinac

Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 12:56:54 PM
E-30A / E-30B



Temp: 58.1 °F

Date: 9-18-17

Frame(HH:MM:SS)

12:56:54

Date:

Frame(HH:MM:SS)

Comments:

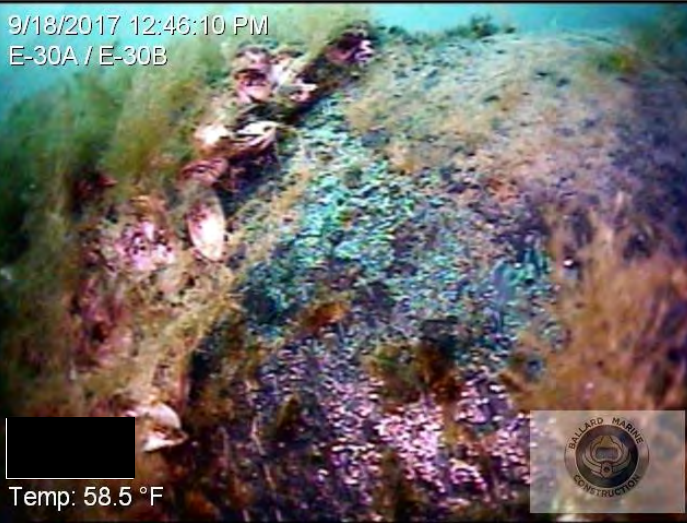


ROV Inspection Form for L5 Straits of Mackinac

Feature #1

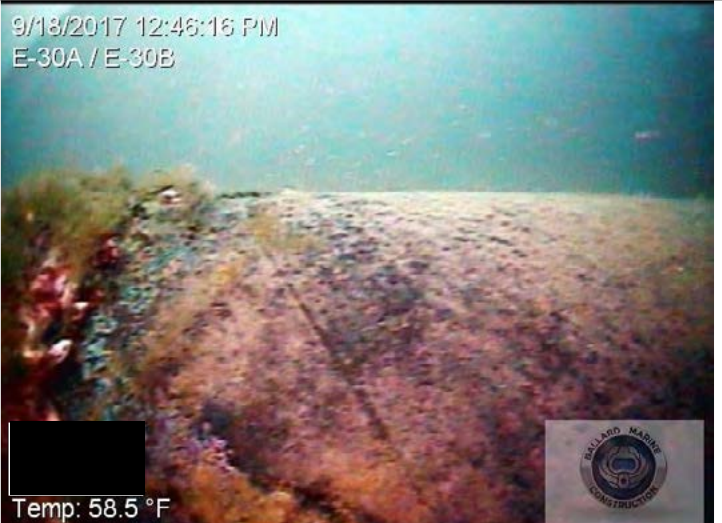
For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 12:46:10 PM
E-30A / E-30B



Temp: 58.5 °F

9/18/2017 12:46:16 PM
E-30A / E-30B



Temp: 58.5 °F

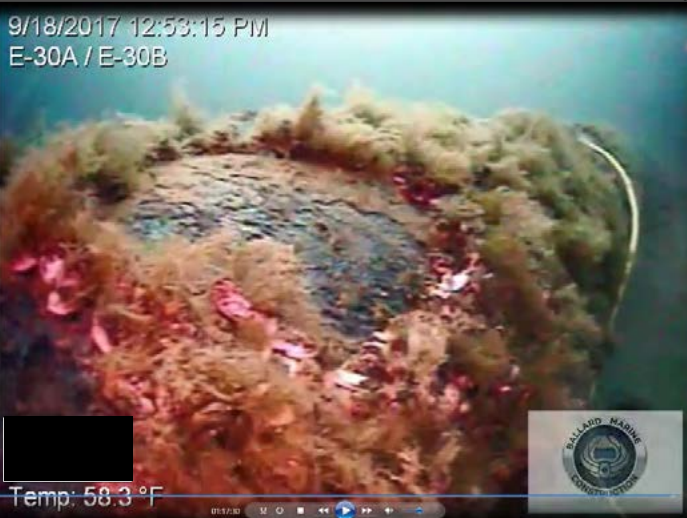
Date: 9-18-17 Frame(HH:MM:SS) 12:46:10

Date: 9-18-17 Frame(HH:MM:SS) 12:46:16

Feature #2

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 12:53:15 PM
E-30A / E-30B



Temp: 58.3 °F

Date: 9-18-17 Frame(HH:MM:SS) 12:53:15

Date: Frame(HH:MM:SS)

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	9-18-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-13 (E-35A / E35B)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 4 – 0:02:51	13:15:15
		Video 4 – 0:28:50	13:41:15

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature		Video Reference (hh:mm:ss)
1	10-15' South, Top half of pipe	<input checked="" type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	13:17:15
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
2	15' south, top of pipe	<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	13:23:52
		<input checked="" type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	



ROV Inspection Form for L5 Straits of Mackinac

Dislodged coating observed on
the lake floor: ☐ YES ☒ NO

Pipe Location w.r.t. Lake Floor:
(ie. partially buried, fully suspended)

Fully Suspended

Comments/Issues/Discussion

Feature 1: Possible dislodged coating. South side of anchor, starting approx 10' and continuing to 20' south. Various spots on top half of pipe.

Video Reference: Video 4 – 0:04:51 Time: 13:17:15

Feature 2: Potential deposit 15' south of anchor on top of pipe. Approx. 2"x2" in size.

Video Reference: Video 4 – 0:11:28 Time: 13:23:52

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 1:26:06 PM
E-35A / E35 B



Temp: 61.1 °F

Date: 9-18-17 Frame(HH:MM:SS) 13:26:06

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 1:41:04 PM
E-35A / E35 B



Temp: 60.5 °F

Date: 9-18-17 Frame(HH:MM:SS) 13:41:04

Date: Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 1:41:14 PM
E-35A / E35 B



Temp: 60.6 °F

9/18/2017 1:33:19 PM
E-35A / E35 B



Temp: 60.7 °F

Date: 9-18-17 Frame(HH:MM:SS) 13:41:14

Date: 9-18-17 Frame(HH:MM:SS) 13:33:19

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-18-17 Frame(HH:MM:SS) 13:17:13

Date: Frame(HH:MM:SS)

Feature #2

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-18-17 Frame(HH:MM:SS) 13:24:12



Date: 9-18-17 Frame(HH:MM:SS) 13:26:40

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/18/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-14 (E-34A / E-34B South)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 5 – 0:02:04	15:08:03
		Video 5 – 0:24:46	15:30:45

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
1	10' south, east side	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	15:12:16
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1: Possible dislodged coating, 10' south of anchor, east side, approx. 4:00 position
 Video Reference: Video 5 – 0:06:08 Time: 15:12:16

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 3:15:01 PM
E-34A / E-34 B South



Temp: 66.0 °F

Date: 15:15:01 Frame(HH:MM:SS)

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 3:14:44 PM
E-34A / E-34 B South



Temp: 66.1 °F

Date: 9-18-17 Frame(HH:MM:SS) 15:14:44

Date: Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 3:30:04 PM
E-34A / E-34 B South



9/18/2017 3:30:09 PM
E-34A / E-34 B South



Date: 9-18-17 Frame(HH:MM:SS) 15:30:04

Date: 9-18-17 Frame(HH:MM:SS) 15:30:09

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 3:13:38 PM
E-34A / E-34 B South



9/18/2017 3:13:39 PM
E-34A / E-34 B South



Date:	9-18-17	Frame(HH:MM:SS)	15:13:38
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Date:	9-18-17	Frame(HH:MM:SS)	15:13:39
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	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/18/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-15 (E-34B South / E-34B North)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 5 – 0:30:03	15:36:02
		Video 5 – 0:53:01	15:59:00

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	12" off bottom



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion


There were no holidays, areas of interest, or unusual characteristics observed at this anchor.


12/12/2017

Contractor Signature

Date

	ROV Inspection Form for L5 Straits of Mackinac
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Overall South Affected Area							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div style="border: 1px solid black; padding: 5px;"> <div style="font-size: small; margin-bottom: 5px;"> 9/18/2017 3:36:54 PM E-34B South / E-34B North </div>  <div style="font-size: x-small; margin-top: 5px;"> Temp: 61.1 °F </div> </div>							
Date:	9-18-17	Frame(HH:MM:SS)	15:36:54	Date:		Frame(HH:MM:SS)	
Comments:							

Overall North Affected Area							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div style="border: 1px solid black; padding: 5px;"> <div style="font-size: small; margin-bottom: 5px;"> 9/18/2017 3:58:12 PM E-34B South / E-34B North </div>  <div style="font-size: x-small; margin-top: 5px;"> Temp: 60.7 °F </div> </div>							
Date:	9-18-17	Frame(HH:MM:SS)	15:58:12	Date:		Frame(HH:MM:SS)	
Comments:							

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/18/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-16 (E-32A-A / E-32A South)	Water Depth (ft):	█
Longitude:	█	Latitude:	█

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 5 – 0:58:23	16:04:21
		Video 5 – 1:15:21	16:21:20

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Partially Buried



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 4:09:02 PM
E-32A-A / E32A South

Temp: 60.3 °F



9/18/2017 4:09:05 PM
E-32A-A / E32A South

Temp: 60.3 °F



Date: 9-18-17 Frame(HH:MM:SS) 16:09:02

Date: 9-18-17 Frame(HH:MM:SS) 16:09:05

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 4:07:18 PM
E-32A-A / E32A South

Temp: 60.4 °F



Date: 9-18-17 Frame(HH:MM:SS) 16:07:18

Date: Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 4:14:51 PM
E-32A-A / E32A South



9/18/2017 4:15:00 PM
E-32A-A / E32A South



Date: 9-18-17 Frame(HH:MM:SS) 16:14:51

Date: 9-18-17 Frame(HH:MM:SS) 16:15:00

Comments:

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/18/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-17 (E-32A South / E32-A North)	Water Depth (ft):	█
Longitude:	█	Latitude:	█

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 5-1:15:59	16:22:11
		Video 5-1:35:50	16:41:51

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
1	10' south at east of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	16:26:46
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1: Possible dislodged coating, no biota, 3" x 5", 10' south of anchor, East side of pipe

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 4:24:15 PM
E-32A South / E-32A North



Date:	9-18-17	Frame(HH:MM:SS)	16:24:15	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 4:27:49 PM
E-32A South / E-32A North



Date:	9-18-17	Frame(HH:MM:SS)	16:27:49	Date:		Frame(HH:MM:SS)	
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Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 4:34:43 PM
E-32A South / E-32A North



Temp: 59.5 °F

9/18/2017 4:37:19 PM
E-32A South / E-32A North



Temp: 59.4 °F

Date:	9-18-17	Frame(HH:MM:SS)	16:34:43	Date:	9-18-17	Frame(HH:MM:SS)	16:37:19
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Comments:



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 4:26:04 PM
E-32A South / E-32A North



Temp: 59.9 °F

Date:

9-18-17

Frame(HH:MM:SS)

16:26:04

Date:

Frame(HH:MM:SS)

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/18/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-18 (E-32A North / E-32B South)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 5 – 1:38:02	16:44:00
		Video 5 – 1:53:31	16:59:30

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 4:47:40 PM
E-32A North / E-32B South



Temp: 57.8 °F

Date:	9-18-17	Frame(HH:MM:SS)	16:47:40	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 4:58:55 PM
E-32A North / E-32B South



Temp: 56.3 °F

Date:	9-18-17	Frame(HH:MM:SS)	16:58:55	Date:		Frame(HH:MM:SS)	
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Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 4:53:34 PM
E-32A North / E-32B South



Temp: 56.8 °F

Date: 9-18-17

Frame(HH:MM:SS)

16:53:34

Date:

Frame(HH:MM:SS)

Comments:

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09-18-2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-19 (E-32B South / E-32B North)	Water Depth (ft):	■
Longitude:	■	Latitude:	■

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 5 - 1:56:04	17:02:03
		Video 5 - 2:11:53	17:17:51

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature		Video Reference (hh:mm:ss)
1	6' south on west of pipe	<input checked="" type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	17:06:00
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)		Fully Buried



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1: Area of Interest - 4" x 4" possible diagonal stripe marks on coating, no biota
 Video Reference: Video 5 – 2:00:01 Time: 17:06:00

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 5:03:27 PM
E-32B South / E-32B North



Temp: 56.0 °F

9/18/2017 5:03:37 PM
E-32B South / E-32B North



Temp: 56.0 °F

Date: 9-18-17 Frame(HH:MM:SS) 17:03:27

Date: 9-18-17 Frame(HH:MM:SS) 17:03:37

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/18/2017 5:10:51 PM
E-32B South / E-32B North



Temp: 55.7 °F

9/18/2017 5:10:54 PM
E-32B South / E-32B North



Temp: 55.7 °F

Date: 9-18-17 Frame(HH:MM:SS) 17:10:51

Date: 9-18-17 Frame(HH:MM:SS) 17:10:54

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 5:17:14 PM
E-32B South / E-32B North



Date: 9-18-17

Frame(HH:MM:SS)

17:17:14

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 5:07:05 PM
E-32B South / E-32B North



Temp: 55.9 °F

9/18/2017 5:07:06 PM
E-32B South / E-32B North



Temp: 55.9 °F

Date: 9-18-17 Frame(HH:MM:SS) 17:07:05

Date: 9-18-17 Frame(HH:MM:SS) 17:07:06

[illegible]



ROV Inspection Form for L5 Straits of Mackinac

Dislodged coating observed on
the lake floor: ☐ YES ☒ NO

Pipe Location w.r.t. Lake Floor:
(ie. partially buried, fully suspended)

Fully Suspended

Comments/Issues/Discussion

Feature 1: Possible dislodged coating, 4"x4", 20' south of anchor on west side of pipe

12/12/2017

Contractor Signature

Date

	ROV Inspection Form for L5 Straits of Mackinac
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Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-18-17

Frame(HH:MM:SS)

17:24:27

Date:

Frame(HH:MM:SS)

Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-18-17

Frame(HH:MM:SS)

17:33:09

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/18/2017 5:34:27 PM
E-39A / E-39B



Temp: 55.5 °F

Date: 9-18-17

Frame(HH:MM:SS)

17:34:27

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-18-17

Frame(HH:MM:SS)

17:28:02

Date:

Frame(HH:MM:SS)

General Information

ROV Visual Inspection Log

ROV Visual Inspection Results

[illegible]



ROV Inspection Form for L5 Straits of Mackinac

Dislodged coating observed on
the lake floor: ☐ YES ☒ NO

Pipe Location w.r.t. Lake Floor:
(ie. partially buried, fully suspended)

Fully Suspended

Comments/Issues/Discussion

There were no holidays, areas on interest, or unusual characteristics observed around this anchor.

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 9:19:44 AM
E-40A / E-40B



Temp: 55.0 °F

9/19/2017 9:26:30 AM
E-40A / E-40B



Temp: 53.6 °F

Date: 9-19-17 Frame(HH:MM:SS) 9:19:44

Date: 9-19-17 Frame(HH:MM:SS) 9:26:30

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 9:30:53 AM
E-40A / E-40B




Temp: 52.8 °F

Date: 9-19-17 Frame(HH:MM:SS) 9:30:53

Date: Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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<p>Comments:</p>

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-19-17	Frame(HH:MM:SS)	9:36:15	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

[illegible]



ROV Inspection Form for L5 Straits of Mackinac

Dislodged coating observed on
the lake floor: ☐ YES ☒ NO

Pipe Location w.r.t. Lake Floor:
(ie. partially buried, fully suspended)

Fully Suspended

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 9:50:24 AM
E-46 / E-45A



Temp: 52.8 °F

Date: 9-19-17 Frame(HH:MM:SS) 9:50:24

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 9:55:00 AM
E-46 / E-45A



Temp: 52.5 °F

Date: 9-19-17 Frame(HH:MM:SS) 9:55:00

9/19/2017 10:00:41 AM
E-46 / E-45A



Temp: 52.0 °F

Date: 9-19-17 Frame(HH:MM:SS) 10:00:41



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-19-17	Frame(HH:MM:SS)	10:01:06	Date:		Frame(HH:MM:SS)	
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Comments:

[illegible]



ROV Inspection Form for L5 Straits of Mackinac

Dislodged coating observed on
the lake floor: ☐ YES ☒ NO

Pipe Location w.r.t. Lake Floor:
(ie. partially buried, fully suspended)

Fully Suspended

Comments/Issues/Discussion

Feature 1: Possible dislodged coating. 5' North of anchor on east, top, and west side
Video Reference: Video 1 – 1:01:14 Time: 10:12:21

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 10:11:24 AM
E-45A / E-45B



Temp: 51.6 °F



Date: 9-19-17 Frame(HH:MM:SS) 10:11:24

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 10:11:11 AM
E-45A / E-45B



Temp: 51.6 °F



Date: 9-19-17 Frame(HH:MM:SS) 10:11:11

Date: Frame(HH:MM:SS)



ROV Inspection Form for L5 Straits of Mackinac

Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/19/2017 10:15:04 AM
E-45A / E-45B



Date: 9-19-17

Frame(HH:MM:SS)

10:15:04

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-19-17 Frame(HH:MM:SS) 10:13:01

Date: 9-19-17 Frame(HH:MM:SS) 10:18:05

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	9-19-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-24 (E-42 South / E-42 North)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 1 – 1:16:12	10:27:19
		Video 1 – 1:41:27	10:52:35

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

12/12/2017

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/19/2017 10:51:03 AM
E-42 South / E-42 North



Temp: 52.0 °F

Date:	9-19-17	Frame(HH:MM:SS)	10:51:03	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/19/2017 10:52:26 AM
E-42 South / E-42 North



Temp: 51.9 °F

Date:	9-19-17	Frame(HH:MM:SS)	10:52:17	Date:		Frame(HH:MM:SS)	
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Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/19/2017 10:52:18 AM
E-42 South / E-42 North



Temp: 51.9 °F

Date: 9-19-17

Frame(HH:MM:SS)

10:52:18

Date:

Frame(HH:MM:SS)

Comments:


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
--	--	-----------------

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/121/2017
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 11:10:07 AM
E-47A / E-47B



Temp: 53.2 °F

Date: 9-19-17 Frame(HH:MM:SS) 11:10:07

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 11:10:21 AM
E-47A / E-47B



Temp: 53.2 °F

Date: 9-19-17 Frame(HH:MM:SS) 11:10:21

9/19/2017 11:15:45 AM
E-47A / E-47B




Temp: 52.3 °F

Date: 9-19-17 Frame(HH:MM:SS) 11:15:45

	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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<p>Comments:</p>

Overall North Affected Area							
<p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-19-17	Frame(HH:MM:SS)	11:14:16	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

[illegible]


	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
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Comments/Issues/Discussion

**NOTE – Video was labeled incorrectly as E-48A / E-47B South. This was noted after completion of the inspection.

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 11:21:29 AM
E-48A / E-47B South



Temp: 52.0 °F



Date: 9-19-17 Frame(HH:MM:SS) 11:21:29

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 11:33:09 AM
E-48A / E-47B South



Temp: 51.6 °F



Date: 9-19-17 Frame(HH:MM:SS) 11:33:09

9/19/2017 11:22:02 AM
E-48A / E-47B South




Temp: 52.0 °F



Date: 9-19-17 Frame(HH:MM:SS) 11:22:02

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-19-17	Frame(HH:MM:SS)	11:33:20	Date:		Frame(HH:MM:SS)	
Comments:							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
--	--	-----------------


Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall South Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 432 406 495"> <p>9/19/2017 11:43:00 AM E-48B South / E-48B North</p> </div>  <div data-bbox="99 842 232 936"> <p>Temp: 51.7 °F</p> </div>							
Date:	9-19-17	Frame(HH:MM:SS)	11:43:00	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

Anchor							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 1320 406 1383"> <p>9/19/2017 11:46:25 AM E-48B South / E-48B North</p> </div>  <div data-bbox="99 1724 232 1818"> <p>Temp: 51.5 °F</p> </div>							
Date:	9-19-17	Frame(HH:MM:SS)	11:46:25	Date:		Frame(HH:MM:SS)	

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-19-17	Frame(HH:MM:SS)	11:48:43	Date:		Frame(HH:MM:SS)	
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Comments:


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
--	--	-----------------

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

South End of Affected and Non-Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 12:12:04 PM
E-66A South / E-66A North



Temp: 55.2 °F

Date:	9-19-17	Frame(HH:MM:SS)	12:12:04	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 12:18:06 PM
E-66A South / E-66A North




Temp: 53.3 °F

Date:	9-19-17	Frame(HH:MM:SS)	12:18:06	Date:		Frame(HH:MM:SS)	
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	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-19-17	Frame(HH:MM:SS)	12:18:02	Date:		Frame(HH:MM:SS)	
Comments:							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 12:24:55 PM
E-66A North / E-66B



Temp: 52.1 °F

Date: 9-19-17 Frame(HH:MM:SS) 12:24:55

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 12:24:16 PM
E-66A North / E-66B



Temp: 52.1 °F

Date: 9-19-17 Frame(HH:MM:SS) 12:24:16

9/19/2017 12:32:04 PM
E-66A North / E-66B




Temp: 51.6 °F

Date: 9-19-17 Frame(HH:MM:SS) 12:32:04

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-19-17	Frame(HH:MM:SS)	12:34:25	Date:		Frame(HH:MM:SS)	
Comments:							

General Information

Date:	9-19-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-30 (E-56A / E-56B)	Water Depth (ft):	████
Longitude:	██████████	Latitude:	██████████

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to north	Video 3 – 0:44:48	12:45:42
		Video 3 – 0:57:57	12:58:50


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

South End of Affected and Non-Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 12:49:29 PM
E-56A / E-56B



Date: 9-19-17 Frame(HH:MM:SS) 12:49:29

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 12:58:43 PM
E-56A / E-56B



Date: 9-19-17 Frame(HH:MM:SS) 12:58:43



9/19/2017 12:58:29 PM
E-56A / E-56B



Date: 9-19-17 Frame(HH:MM:SS) 12:58:29

Comments:

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 449 368 510"> <p>9/19/2017 12:54:17 PM E-56A / E-56B</p> </div>  <div data-bbox="99 848 250 947"> <p>Temp: 51.6 °F</p> </div> <div data-bbox="623 844 777 951">  </div>							
Date:	9-19-17	Frame(HH:MM:SS)	12:54:17	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

General Information

Date:	9-19-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-31 (E-54A / E-54B)	Water Depth (ft):	████
Longitude:	██████████	Latitude:	██████████

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 3 – 1:03:25	13:04:18
		Video 3 – 1:12:16	13:13:10


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/2017
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-19-17	Frame(HH:MM:SS)	13:08:14	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor


For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-19-17	Frame(HH:MM:SS)	13:13:10	Date:		Frame(HH:MM:SS)	
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	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 556 355 617"> <p>9/19/2017 1:16:37 PM E-54A / E-54B</p> </div>  <div data-bbox="99 1024 264 1058"> <p>Temp: 51.7 °F</p> </div>							
Date:	9-19-17	Frame(HH:MM:SS)	13:16:37	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

General Information

Date:	9-19-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-32 (E-53A / E-53B)	Water Depth (ft):	████
Longitude:	██████████	Latitude:	██████████

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 4 – 0:01:46	13:58:33
		Video 4 – 0:14:54	14:11:41


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/2017
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-19-17	Frame(HH:MM:SS)	14:02:20	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor


For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-19-17	Frame(HH:MM:SS)	14:08:18	Date:		Frame(HH:MM:SS)	
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	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-19-17	Frame(HH:MM:SS)	14:08:24	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

General Information

ROV Visual Inspection Log

ROV Visual Inspection Results

[illegible]



ROV Inspection Form for L5 Straits of Mackinac

Dislodged coating observed on
the lake floor: ☐ YES ☒ NO

Pipe Location w.r.t. Lake Floor:
(ie. partially buried, fully suspended)

Fully Suspended

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

12/13/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 2:22:59 PM
E-52A / E-52B



Date: 9-19-17

Frame(HH:MM:SS)

14:22:59

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 2:26:03 PM
E-52A / E-52B



Date: 9-19-17

Frame(HH:MM:SS)

14:26:03

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-19-17

Frame(HH:MM:SS)

14:29:26

Date:

Frame(HH:MM:SS)

Comments:

[illegible]




ROV Inspection Form for L5 Straits of Mackinac

		metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended

Comments/Issues/Discussion

There were no holidays, areas of interests, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 2:37:01 PM
E-49C / E-49B South



Date: 9-19-17

Frame(HH:MM:SS)

14:37:01

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 2:34:38 PM
E-49C / E-49B South



Date: 9-19-17

Frame(HH:MM:SS)


14:34:38

Date:

Frame(HH:MM:SS)

	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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<p>Comments:</p>

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="94 548 789 1066"> <div>9/19/2017 2:42:01 PM E-49C / E-49B South</div>  <div>Temp: 51.7 °F</div> </div>							
Date:	9-19-17	Frame(HH:MM:SS)	14:42:01	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

General Information

Date:	9-19-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-35 (E-49B South / E-49B North)	Water Depth (ft):	████
Longitude:	██████████	Latitude:	██████████

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect south to north	Video 4 - 0:53:32	14:50:19
		Video 4 – 1:11:13	15:08:00

ROV Visual Inspection Results


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
--	--	-----------------

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor

	12/13/2017
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-19-17	Frame(HH:MM:SS)	14:53:53	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-19-17	Frame(HH:MM:SS)	14:59:29	Date:		Frame(HH:MM:SS)	
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	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-19-17	Frame(HH:MM:SS)	15:04:01	Date:		Frame(HH:MM:SS)	
Comments:							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
--	--	-----------------


Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date


	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
---	---

Overall South Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 447 406 506"> <p>9/19/2017 3:12:48 PM E-49B North / E-49A South</p> </div>  <div data-bbox="99 915 261 947"> <p>Temp: 51.6 °F</p> </div>							
Date:	9-19-17	Frame(HH:MM:SS)	15:12:48	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

Anchor							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 1339 406 1398"> <p>9/19/2017 3:16:04 PM E-49B North / E-49A South</p> </div>  <div data-bbox="99 1808 261 1839"> <p>Temp: 51.5 °F</p> </div>							
Date:	9-19-17	Frame(HH:MM:SS)	15:16:04	Date:		Frame(HH:MM:SS)	

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
---	---

Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 556 406 615"> <p>9/19/2017 3:18:31 PM E-49B North / E-49A South</p> </div>  <div data-bbox="99 1024 263 1056"> <p>Temp: 51.4 °F</p> </div>							
Date:	9-19-17	Frame(HH:MM:SS)	15:18:31	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
--	--	-----------------

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed at this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-19-17	Frame(HH:MM:SS)	15:28:45	Date:	9-19-17	Frame(HH:MM:SS)	15:26:24
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-19-17	Frame(HH:MM:SS)	15:30:32	Date:		Frame(HH:MM:SS)	
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	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-19-17	Frame(HH:MM:SS)	15:31:07	Date:		Frame(HH:MM:SS)	
Comments:							

General Information

Date:	9-19-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-38 (E-61A-A / E-61A)	Water Depth (ft):	████
Longitude:	██████████	Latitude:	██████████

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 4 – 1:50:46	15:47:33
		Video 4 – 2:08:24	16:05:11

[illegible]


	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

*Note: Hydrophone Location

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-19-17	Frame(HH:MM:SS)	15:50:51	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-19-17	Frame(HH:MM:SS)	15:55:01	Date:		Frame(HH:MM:SS)	
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Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-19-17	Frame(HH:MM:SS)	15:57:26	Date:	9-19-17	Frame(HH:MM:SS)	15:55:17
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Comments:


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
--	--	-----------------

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-19-17	Frame(HH:MM:SS)	16:13:54	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor


For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-19-17	Frame(HH:MM:SS)	16:09:54	Date:		Frame(HH:MM:SS)	
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	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-19-17	Frame(HH:MM:SS)	16:16:54	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
--	--	-----------------

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 4:24:58 PM
E-61B South / E-61B North



Date: 9-19-17 Frame(HH:MM:SS) 16:24:58

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/19/2017 4:25:02 PM
E-61B South / E-61B North




Date: 9-19-17 Frame(HH:MM:SS) 16:25:02

Date: Frame(HH:MM:SS)

	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="90 546 787 1066"> <div> 9/19/2017 4:32:02 PM E-61B South / E-61B North </div>  </div>							
Date:	9-19-17	Frame(HH:MM:SS)	16:32:02	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	9-19-17	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-41 (E-61B North / E-61C South)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect south to north	Video 4 – 2:42:14	16:39:01
		Video 4 – 2:49:40	16:49:40

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

12/13/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/19/2017 4:41:11 PM
E-61B North / E-61C South



Temp: 51.4 °F

Date: 9-19-17 Frame(HH:MM:SS) 16:41:11

Date: Frame(HH:MM:SS)

Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/19/2017 4:46:38 PM
E-61B North / E-61C South



Temp: 51.5 °F

Date: 9-19-17 Frame(HH:MM:SS) 16:46:38

Date: Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/19/2017 4:41:30 PM
E-61B North / E-61C South



Temp: 51.4 °F

Date:	9-19-17	Frame(HH:MM:SS)	16:41:30	Date:		Frame(HH:MM:SS)	
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Comments:

[illegible]


	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
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Comments/Issues/Discussion

Note: Video 4 was accidentally stopped, however, Video 5 picks up immediately where Video 4 left off to finish inspection around this anchor.

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/19/2017 4:53:48 PM
E-61C South / E-61C North

Temp: 51.5 °F



Date: 9-19-17

Frame(HH:MM:SS)

16:53:48

Date:

Frame(HH:MM:SS)

Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/19/2017 4:53:58 PM
E-61C South / E-61C North

Temp: 51.5 °F



Date: 9-19-17

Frame(HH:MM:SS)


16:53:58

Date:

Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 554 410 615"> <p>9/19/2017 5:00:45 PM E-61C South / E-61C North</p> </div> 							
Date:	9-19-17	Frame(HH:MM:SS)	17:00:45	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/20/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-43 (E-22A / E-22B)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 1 – 00:08:20	08:57:55
		Video 1 – 00:27:55	09:17:30

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature		Video Reference (hh:mm:ss)
1	South of anchor, Top of pipe	<input type="checkbox"/> Area of Interest	<input checked="" type="checkbox"/> Holiday (bare metal)	09:02:16
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	



ROV Inspection Form for L5 Straits of Mackinac

		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
Comments/Issues/Discussion			
<p>Feature 1: Bare metal. This location is identified as EAS-3 in the US-EPA's Biota Investigation Work Plan and was associated with 2017 communication cable rub. This area was repaired on October 1, 2017. Located 3" south of anchor at top of pipe; 11 to 1 o'clock position. Approx size 18"x 2'</p> <p>Video Reference: Video 1 – 00:12:40 Time: 9:02:16</p>			
		12/14/17	
Contractor Signature		Date	



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 9:09:34 AM
E-22A / E-22B



Temp: 53.5 °F

Date:	9-20-17	Frame(HH:MM:SS)	9:09:34	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 9:08:45 AM
E-22A / E-22B



Temp: 53.6 °F

Date:	9-20-17	Frame(HH:MM:SS)	9:08:45	Date:		Frame(HH:MM:SS)	
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ROV Inspection Form for L5 Straits of Mackinac

Comments:

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 9:13:56 AM
E-22A / E-22B



Temp: 53.2 °F

Date: 9-20-17 Frame(HH:MM:SS) 9:13:56

Date: Frame(HH:MM:SS)

Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 9:02:33 AM
E-22A / E-22B



Temp: 54.4 °F

9/20/2017 9:09:00 AM
E-22A / E-22B



Temp: 53.6 °F

General Information

Date:	09/20/2017 09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-44 (E-19A South / E-19A North)	Water Depth (ft):	████
Longitude:	██████████	Latitude:	██████████

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 1 – 0:33:03	09:22:39 9/20/17
		Video 1 – 0:40:00	09:29:35 9/20/17
		Video 1 – 0:00:06	08:47:40 09/21/17
		Video 1 – 0:08:04	08:55:40 09/21/17

[illegible]


	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
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Comments/Issues/Discussion

Inspection was completed over two days.

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-20-17	Frame(HH:MM:SS)	9:26:59	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor


For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-21-17	Frame(HH:MM:SS)	8:55:33	Date:		Frame(HH:MM:SS)	
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Comments:

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 447 406 510"> <p>9/21/2017 8:52:05 AM E-19A South / E-19A North</p> </div> 							
Date:	9-21-17	Frame(HH:MM:SS)	8:52:05	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

General Information

Date:	09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-45 (E-19A North / E-19B South)	Water Depth (ft):	████
Longitude:	██████████	Latitude:	██████████

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 1 – 0:09:44	08:57:20
		Video 1 – 0:23:35	09:11:10

ROV Visual Inspection Results


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 9:04:09 AM
E-19A North / E-19B South



Date: 9-21-17 Frame(HH:MM:SS) 9:04:09

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 9:10:51 AM
E-19A North / E-19B South



Date: 9-21-17 Frame(HH:MM:SS) 9:10:51

Date: Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-21-17	Frame(HH:MM:SS)	9:07:54	Date:		Frame(HH:MM:SS)	
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Comments:

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-46 (E -19B South / E-19B North)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 1 – 0:25:35	09:13:11
		Video 1 – 0:39:04	09:26:40

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed at this anchor.

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 9:15:58 AM
E-19B South / E-19B North



Date: 9-21-17

Frame(HH:MM:SS)

9:15:58

Date:

Frame(HH:MM:SS)

Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 9:13:46 AM
E-19B South / E-19B North



Date: 9-21-17

Frame(HH:MM:SS)

9:13:46

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 9:26:12 AM
E-19B South / E-19B North



Date: 9-21-17

Frame(HH:MM:SS)

9:26:12

Date:

Frame(HH:MM:SS)

Comments:

[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
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Comments/Issues/Discussion

Feature 1: Potential dislodged coating. 8 to 10' south of anchor at top of pipe; approximately 11 o'clock to 3 o'clock x 2' wide

Video Reference: Video 1 - 0:50:34 Time: 9:38:10

Hydrophone Location

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 9:36:39 AM
E-15A / E-15B



Temp: 54.2 °F



Date:	9-21-17	Frame(HH:MM:SS)	9:36:39	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 9:53:29 AM
E-15A / E-15B



Temp: 53.1 °F



9/21/2017 9:46:44 AM
E-15A / E-15B



Temp: 53.4 °F



Date:	9-21-17	Frame(HH:MM:SS)	9:53:29	Date:	9-21-17	Frame(HH:MM:SS)	9:46:44
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Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 9:46:34 AM
E-15A / E-15B



Temp: 53.4 °F

9/21/2017 9:46:40 AM
E-15A / E-15B



Temp: 53.4 °F

Date: 9-21-17 Frame(HH:MM:SS) 9:46:34

Date: 9-21-17 Frame(HH:MM:SS) 9:46:40

Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 9:37:53 AM
E-15A / E-15B



Temp: 54.2 °F

9/21/2017 9:42:43 AM
E-15A / E-15B



Temp: 53.7 °F

Date: 9-21-17 Frame(HH:MM:SS) 9:37:53

Date: 9-21-17 Frame(HH:MM:SS) 9:42:43


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-21-17	Frame(HH:MM:SS)	9:56:48	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor


*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-21-17	Frame(HH:MM:SS)	9:58:48	Date:		Frame(HH:MM:SS)	
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Comments:

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 380 354 441"> <p>9/21/2017 9:58:52 AM E-08A / E-8B</p> </div>  <div data-bbox="99 846 264 879"> <p>Temp: 53.4 °F</p> </div>							
Date:	9-21-17	Frame(HH:MM:SS)	9:58:52	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-49 (E-8B / E-08C/D South)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 1 – 1:26:03	10:13:39
		Video 1 – 1:36:47	10:24:20

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

There were no holidays, areas of interest, or other characteristics observed around this anchor.

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 10:18:47 AM
E-8B / E-08C/DSouth

Temp: 53.4 °F



Date: 9-21-17

Frame(HH:MM:SS)

10:18:47

Date:

Frame(HH:MM:SS)

Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 10:17:09 AM
E-8B / E-08C/DSouth

Temp: 53.5 °F



Date: 9-21-17

Frame(HH:MM:SS)

10:17:09

9/21/2017 10:21:13 AM
E-8B / E-08C/DSouth

Temp: 53.1 °F



Date: 9-21-17

Frame(HH:MM:SS)

10:21:13

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 10:24:14 AM
E-8B / E-08C/DSouth



9/21/2017 10:21:11 AM
E-8B / E-08C/DSouth



Date: 9-21-17 Frame(HH:MM:SS) 10:24:14

Date: 9-21-17 Frame(HH:MM:SS) 10:21:11

Comments:

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-50 (E-08C/D South / E-08C/D North)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 1 – 1:38:29	10:26:05
		Video 2 – 0:05:15	10:38:38

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully Suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

There were no Holidays, areas of interest, or other unusual characteristics observed at this anchor.

12/13/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 10:29:08 AM
E-08C/DSouth / E-08C/DNorth

Temp: 52.8 °F



Date: 9-21-17

Frame(HH:MM:SS)

10:29:08

Date:

Frame(HH:MM:SS)

Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 10:31:55 AM
E-08C/DSouth / E-08C/DNorth

Temp: 52.7 °F



Date: 9-21-17

Frame(HH:MM:SS)

10:31:55

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 10:38:32 AM
E-08C/DSouth / E-08C/DNorth



Temp: 52.5 °F

Date: 9-22-17

Frame(HH:MM:SS)

10:38:32

Date:

Frame(HH:MM:SS)

Comments:


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed at this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

South End of Affected and Non-Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 10:49:41 AM
E-13A / E-13B South

Temp: 53.9 °F



Date: 9-21-17

Frame(HH:MM:SS)

10:49:41

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 10:52:58 AM
E-13A / E-13B South

Temp: 53.8 °F



Date: 9-21-17

Frame(HH:MM:SS)


10:52:58

Date:

Frame(HH:MM:SS)

	ROV Inspection Form for L5 Straits of Mackinac
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 554 368 615"> 9/21/2017 10:55:02 AM E-13A / E-13B South </div>  <div data-bbox="99 1024 263 1056"> Temp: 53.6 °F </div>							
Date:	9-21-17	Frame(HH:MM:SS)	10:55:02	Date:		Frame(HH:MM:SS)	
Comments:							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 11:05:14 AM
E-13B South / E-13B North



Temp: 53.2 °F

9/21/2017 11:08:14 AM
E-13B South / E-13B North



Temp: 53.1 °F

Date: 9-21-17 Frame(HH:MM:SS) 11:05:14

Date: 9-21-17 Frame(HH:MM:SS) 11:08:14

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 11:12:15 AM
E-13B South / E-13B North



Temp: 52.8 °F

Date: 9-21-17 Frame(HH:MM:SS) 11:12:15

Date: Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-21-17	Frame(HH:MM:SS)	11:12:28	Date:	9-21-17	Frame(HH:MM:SS)	11:10:07
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Comments:


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 11:16:46 AM
E-13B North / E-13C South



Temp: 52.6 °F

Date: 9-21-17 Frame(HH:MM:SS) 11:16:46

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 11:16:41 AM
E-13B North / E-13C South



Temp: 52.6 °F

Date: 9-21-17 Frame(HH:MM:SS) 11:16:41

9/21/2017 11:23:41 AM
E-13B North / E-13C South



Temp: 52.4 °F

Date: 9-21-17 Frame(HH:MM:SS) 11:23:41

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 11:21:50 AM
E-13B North / E-13C South

Temp: 52.5 °F



Date: 9-21-17 Frame(HH:MM:SS) 11:21:50

Date: Frame(HH:MM:SS)

Comments:


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 11:28:01 AM
E-13C South / E-13C North



Temp: 52.4 °F

Date:	9-21-17	Frame(HH:MM:SS)	11:28:01	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 11:28:04 AM
E-13C South / E-13C North




Temp: 52.4 °F

Date:	9-21-17	Frame(HH:MM:SS)	11:28:04	Date:		Frame(HH:MM:SS)	
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	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 548 407 604"> <p>9/21/2017 11:34:03 AM E-13C South / E-13C North</p> </div>  <div data-bbox="99 1018 261 1050"> <p>Temp: 52.4 °F</p> </div>							
Date:	9-21-17	Frame(HH:MM:SS)	11:34:03	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed at this anchor.

	12/13/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 11:43:44 AM
E-3A / E-3B



Date: 9-21-17 Frame(HH:MM:SS) 11:43:44

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 11:46:42 AM
E-3A / E-3B



Date: 9-21-17 Frame(HH:MM:SS) 11:46:42


9/21/2017 11:51:58 AM
E-3A / E-3B



Date: 9-21-17 Frame(HH:MM:SS) 11:51:58

Comments:

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 378 367 436"> <p>9/21/2017 11:48:31 AM E-3A / E-3B</p> </div>  <div data-bbox="99 779 256 877"> <p>Temp: 53.2 °F</p> </div>							
Date:	9-21-17	Frame(HH:MM:SS)	11:48:31	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed at this anchor.


	12/14/17
Contractor Signature	Date

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall South Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 401 367 464"> <p>9/21/2017 11:59:24 AM E-76A / E-76B</p> </div>  <div data-bbox="99 873 261 905"> <p>Temp: 52.8 °F</p> </div>							
Date:	9-21-17	Frame(HH:MM:SS)	11:59:24	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

Anchor							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 1255 367 1318"> <p>9/21/2017 12:08:00 PM E-76A / E-76B</p> </div>  <div data-bbox="99 1724 261 1755"> <p>Temp: 52.6 °F</p> </div>							
Date:	9-21-17	Frame(HH:MM:SS)	12:08:00	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
---	---

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 390 368 447"> <p>9/21/2017 12:04:36 PM E-76A / E-76B</p> </div>  <div data-bbox="99 856 261 888"> <p>Temp: 52.7 °F</p> </div>							
Date:	9-21-17	Frame(HH:MM:SS)	12:04:36	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

[illegible]


	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1 – Potential Deposit. 10' north of anchor, east side of pipe, 3 to 4 o'clock position. Size approximately 1"x 4".

Video Reference: Video 2 – 1:47:52 Time: 12:21:15

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 12:17:24 PM
E-02A South / E-02A North



Temp: 53.3 °F

Date: 9-21-17 Frame(HH:MM:SS) 12:17:24

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 12:20:16 PM
E-02A South / E-02A North



Temp: 53.2 °F

Date: 9-21-17 Frame(HH:MM:SS) 12:20:16

9/21/2017 12:27:45 PM
E-02A South / E-02A North



Temp: 52.7 °F

Date: 9-21-17 Frame(HH:MM:SS) 12:27:45



ROV Inspection Form for L5 Straits of Mackinac

Comments:

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 12:28:02 PM
E-02A South / E-02A North

Temp: 52.7 °F



Date: 9-21-17

Frame(HH:MM:SS)

12:28:02

Date:

Frame(HH:MM:SS)

Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 12:21:45 PM
E-02A South / E-02A North

Temp: 53.1 °F



Date: 9-21-17

Frame(HH:MM:SS)

12:21:45

9/21/2017 12:22:38 PM
E-02A South / E-02A North

Temp: 53.1 °F



Date: 9-21-17

Frame(HH:MM:SS)

12:22:38



ROV Inspection Form for L5 Straits of Mackinac




[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
--	--	-----------------

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed at this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-21-17 Frame(HH:MM:SS) 12:33:09

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-21-17 Frame(HH:MM:SS) 12:41:47

Date: Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-21-17	Frame(HH:MM:SS)	12:39:46	Date:		Frame(HH:MM:SS)	
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Comments:


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
--	--	-----------------

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed at this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 12:46:42 PM
E-01A South / E-01A North



Temp: 52.8 °F

Date: 9-21-17 Frame(HH:MM:SS) 12:46:42

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 12:56:52 PM
E-01A South / E-01A North



Temp: 52.9 °F

Date: 9-21-17 Frame(HH:MM:SS) 12:56:52

9/21/2017 12:56:53 PM
E-01A South / E-01A North



Temp: 52.9 °F

Date: 9-21-17 Frame(HH:MM:SS) 12:56:53

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-21-17	Frame(HH:MM:SS)	12:53:45	Date:		Frame(HH:MM:SS)	
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Comments:

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-60 (E-01A North / E-01B-A South)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 2 – 2:26:21	12:59:44
		Video 2 – 2:36:46	13:10:10

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed at this anchor.

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 1:01:54 PM
E-01A North / E-01B-A South

Temp: 52.7 °F



Date: 9-21-17 Frame(HH:MM:SS) 13:01:54

Date: Frame(HH:MM:SS)

Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 1:05:33 PM
E-01A North / E-01B-A South

Temp: 52.6 °F



Date: 9-21-17 Frame(HH:MM:SS) 13:05:33

Date: Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 1:07:01 PM
E-01A North / E-01B-A South



Temp: 52.5 °F

Date: 9-21-17

Frame(HH:MM:SS)

13:07:01

Date:

Frame(HH:MM:SS)

Comments:


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics around this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 1:15:48 PM
E-01B-A South / E-01B-A North



9/21/2017 1:21:14 PM
E-01B-A South / E-01B-A North



Date: 9-21-17 Frame(HH:MM:SS) 13:15:48

Date: 9-21-17 Frame(HH:MM:SS) 13:21:14

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 1:21:12 PM
E-01B-A South / E-01B-A North



Date: 9-21-17 Frame(HH:MM:SS) 13:21:12

Date: Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-21-17	Frame(HH:MM:SS)	13:21:34	Date:		Frame(HH:MM:SS)	
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Comments:

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-62 (E-01B-A North / E-01B-B)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 2 – 2:51:01	13:24:24
		Video 2 – 3:03:47	13:37:10

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
1	5' north on west of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	13:33:52
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1 – Possible dislodged coating. Patches in various spots on west side of pipe, approx. 5' north of anchor.

Video Reference: Video 2 – 3:00:28 Time: 13:33:52

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 1:26:40 PM
E-01B-A North / E-01B-B

Temp: 52.8 °F



Date: 9-21-17

Frame(HH:MM:SS)

13:26:40

Date:

Frame(HH:MM:SS)

Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 1:26:42 PM
E-01B-A North / E-01B-B

Temp: 52.8 °F



Date: 9-21-17

Frame(HH:MM:SS)

13:26:42

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 1:32:22 PM
E-01B-A North / E-01B-B



Temp: 52.8 °F

Date: 9-21-17

Frame(HH:MM:SS)

13:32:22

Date:

Frame(HH:MM:SS)

Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 1:34:36 PM
E-01B-A North / E-01B-B



Temp: 52.8 °F

Date: 9-21-17

Frame(HH:MM:SS)

13:34:36

9/21/2017 1:34:42 PM
E-01B-A North / E-01B-B



Temp: 52.8 °F

Date: 9-21-17

Frame(HH:MM:SS)

13:34:42

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-63 (E-04A South / E-04A North)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 3 – 00:00:30	14:42:50
		Video 4 – 00:11:21	15:00:07

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
1	15' South, top of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	14:45:40
2	10' South, top of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	14:47:50
3	Just north, top of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	14:56:08
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Video 3 was ended by accident but Video 4 picks up immediately where 3 left off.

Feature 1 – Possible White Spot. 15' south of anchor on top of pipe. Approx. 3"x 3" area

Video Reference: Video 3 – 00:03:24 Time: 14:45:40

Feature 2 – Possible White Spot. 10' south of anchor on top of pipe. Approx. 4"x4"

Video Reference: Video 3 – 00:05:30 Time: 14:47:50

Feature 3 – Possible white spot. 0"- 4"north of anchor at the top of pipe. Size approx. 2" x 4"

Video Reference: Video 4 – 00:07:22 Time: 14:56:08

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 2:45:25 PM
E-04A South / E-04A North



Date: 9-21-17

Frame(HH:MM:SS)

14:45:25

Date:

Frame(HH:MM:SS)

Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 2:42:40 PM
E-04A South / E-04A North



Date: 9-21-17

Frame(HH:MM:SS)

14:42:40

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 2:55:36 PM
E-04A South / E-04A North



Temp: 54.2 °F

Date: 9-21-17 Frame(HH:MM:SS) 14:55:36

Date: Frame(HH:MM:SS)

Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 2:45:50 PM
E-04A South / E-04A North



Temp: 58.4 °F

Date: 9-21-17 Frame(HH:MM:SS) 14:45:50

9/21/2017 2:46:52 PM
E-04A South / E-04A North



Temp: 57.6 °F

Date: 9-21-17 Frame(HH:MM:SS) 14:46:52



ROV Inspection Form for L5 Straits of Mackinac

Feature #2

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 2:48:07 PM
E-04A South / E-04A North



Temp: 56.9 °F

9/21/2017 2:49:33 PM
E-04A South / E-04A North



Temp: 56.1 °F

Date:	9-21-17	Frame(HH:MM:SS)	14:48:07
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Date:	9-21-17	Frame(HH:MM:SS)	14:49:33
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Feature #3

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 2:57:39 PM
E-04A South / E-04A North



Temp: 53.8 °F

9/21/2017 2:56:58 PM
E-04A South / E-04A North



Temp: 53.9 °F

Date:	9-21-17	Frame(HH:MM:SS)	14:57:39
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Date:	9-21-17	Frame(HH:MM:SS)	14:56:58
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	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-64 (E-04A North / E-04B)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 4 – 0:12:39	15:01:25
		Video 4 – 0:25:19	15:14:05

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 3:08:36 PM
E-04A North / E-04B

Temp: 53.0 °F



Date: 9-21-17

Frame(HH:MM:SS)

15:08:36

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 3:03:57 PM
E-04A North / E-04B

Temp: 53.2 °F



Date: 9-21-17

Frame(HH:MM:SS)

15:03:57

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 3:11:06 PM
E-04A North / E-04B



Temp: 53.0 °F

Date: 9-21-17

Frame(HH:MM:SS)

15:11:06

Date:

Frame(HH:MM:SS)

Comments:

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-65 (E-05A South / E-05A North)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 4 – 0:27:31	15:16:18
		Video 4 – 0:41:49	15:30:35

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
1	10' - 15' south at top of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	15:20:00
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1 – Potential dislodged coating. Patches visible 10' to 15' south of anchor at top of pipe
 Video Reference: Video 4 – 0:31:21 Time: 15:20:00

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 3:19:29 PM
E-05A South / E-05A North



Temp: 53.0 °F

Date: 9-21-17

Frame(HH:MM:SS)

15:19:29

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 3:24:30 PM
E-05A South / E-05A North



Temp: 52.9 °F

Date: 9-21-17

Frame(HH:MM:SS)

15:24:30

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 3:27:49 PM
E-05A South / E-05A North



Temp: 52.9 °F

Date: 9-21-17

Frame(HH:MM:SS)

15:27:49

Date:

Frame(HH:MM:SS)

Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 3:20:08 PM
E-05A South / E-05A North



Temp: 53.0 °F

Date: 9-21-17

Frame(HH:MM:SS)

15:20:08

Date:

Frame(HH:MM:SS)



ROV Inspection Form for L5 Straits of Mackinac


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 3:35:16 PM
E-05A North / E-05B



Date: 9-21-17

Frame(HH:MM:SS)

15:35:16

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 3:38:14 PM
E-05A North / E-05B



Date: 9-21-17

Frame(HH:MM:SS)


15:38:14

Date:

Frame(HH:MM:SS)

Comments:

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="90 436 787 955"> <div data-bbox="102 447 354 510"> 9/21/2017 3:44:55 PM E-05A North / E-05B </div>  </div>							
Date:	9-21-17	Frame(HH:MM:SS)	15:44:55	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	E-67 (E-65A / E-65B)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 4 – 1:07:46	15:56:33
		Video 4 – 1:21:29	16:10:15

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature		Video Reference (hh:mm:ss)
1	5' – 15' south, top of pipe	<input checked="" type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	15:59:51
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	



ROV Inspection Form for L5 Straits of Mackinac

Dislodged coating observed on
the lake floor: ☐ YES ☒ NO

Pipe Location w.r.t. Lake Floor:
(ie. partially buried, fully suspended)

Fully suspended

Comments/Issues/Discussion

Feature 1 – Possible dislodged coating. 5' south and up to 15' south of anchor, at top of pipe – various areas

Video Reference: Video 4 – 1:11:05 Time: 15:59:51

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 3:59:41 PM
E-65A / E-65B



Temp: 62.7 °F



Date:	9-21-17	Frame(HH:MM:SS)	15:59:41	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 4:08:00 PM
E-65A / E-65B



Temp: 64.1 °F



Date:	9-21-17	Frame(HH:MM:SS)	16:08:00	Date:		Frame(HH:MM:SS)	
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Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 4:07:53 PM
E-65A / E-65B

Temp: 64.1 °F



Date:	9-21-17	Frame(HH:MM:SS)	16:07:53	Date:		Frame(HH:MM:SS)	
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Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 4:00:06 PM
E-65A / E-65B

Temp: 62.8 °F



Date:	9-21-17	Frame(HH:MM:SS)	16:00:06	Date:		Frame(HH:MM:SS)	
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ROV Inspection Form for L5 Straits of Mackinac

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/20/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-1 (W-01A / W-01B South)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 2 – 0:06:37	10:00:19
		Video 2 – 0:28:52	10:22:34

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
1	3' and 5' south top of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	10:01:30
2	5' south at west of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	10:05:20
3	1 - 10' north, east, west& top of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	10:12:25
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1 - possible patches of dislodged coating. Between 3 and 5' south of anchor at top of pipe.

Video Reference: Video 2 – 0:07:46 Time: 10:01:30

Feature 2 - possible dislodged coating 3"x 3", 5' south at west of pipe

Video Reference: Video 2 – 0:11:38 Time: 10:05:20

Feature 3 - possible dislodged coating, patches between 1 to 10' north at top, east, and west side of pipe

Video Reference: Video 2 – 0:18:43 Time: 10:12:25

12/14/17

Contractor Signature

Date

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-20-17	Frame(HH:MM:SS)	10:17:13	Date:		Frame(HH:MM:SS)	
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-20-17	Frame(HH:MM:SS)	10:15:01	Date:		Frame(HH:MM:SS)	
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ROV Inspection Form for L5 Straits of Mackinac

Comments:

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-20-17 Frame(HH:MM:SS) 10:02:43

Date: 9-20-17 Frame(HH:MM:SS) 10:03:01

Feature #2

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-20-17 Frame(HH:MM:SS) 10:08:05

Date: Frame(HH:MM:SS)



ROV Inspection Form for L5 Straits of Mackinac

Feature #3

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-20-17 Frame(HH:MM:SS) 10:18:28

Date: 9-20-17 Frame(HH:MM:SS) 10:18:57

Feature #3 (Cont.)

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.





ROV Inspection Form for L5 Straits of Mackinac

Date:	9-20-17	Frame(HH:MM:SS)	10:18:09	Date:	9-20-17	Frame(HH:MM:SS)	10:16:22
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	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/20/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-2 (W-01B South / W-01B North)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 2 – 0:33:20	10:27:02
		Video 2 – 0:48:43	10:42:25

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
1	10' south east of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	10:29:00
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1 – Possible dislodged coating. From 1-10' South of anchor, various patches on east, west, and top of pipe.

Video Reference: Video 2 – 0:35:18

Time: 10:29:00

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 10:30:32 AM
W-01B South / W-01B North



Temp: 57.5 °F

Date: 9-20-17 Frame(HH:MM:SS) 10:30:32

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 10:37:05 AM
W-01B South / W-01B North



Temp: 57.2 °F

Date: 9-20-17 Frame(HH:MM:SS) 10:37:05

Date: Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 10:39:22 AM
W-01B South / W-01B North



Temp: 57.3 °F

Date: 9-20-17

Frame(HH:MM:SS)

10:39:22

Date:

Frame(HH:MM:SS)

Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 10:32:00 AM
W-01B South / W-01B North



Temp: 57.4 °F

Date: 9-20-17

Frame(HH:MM:SS)

10:32:00

9/20/2017 10:32:19 AM
W-01B South / W-01B North



Temp: 57.4 °F

Date: 9-20-17

Frame(HH:MM:SS)

10:32:19

General Information

Date:	09/20/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-3 (W-5A / W-5B)	Water Depth (ft):	█
Longitude:	█	Latitude:	█

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect North to South	Video 2 – 0:56:48	10:50:30
		Video 2 – 1:13:48	11:07:30

[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1 - Two potential deposits approx. 1"x1" and 1"x1" in size and about 10' north of anchor at top of pipe

Video Reference: Video 2 – 1:08:47 Time: 11:02:30

Feature 2 - Possible patches of dislodged coating from 0 to 10' north at various locations along top and west side of pipe

Video Reference: Video 2 – 1:08:47 Time: 11:02:30

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-20-17	Frame(HH:MM:SS)	10:56:08	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor


For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-20-17	Frame(HH:MM:SS)	11:02:16	Date:		Frame(HH:MM:SS)	
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Comments:

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="90 367 787 892"> <div>9/20/2017 11:02:14 AM W-5A / W-5B</div>  <div>Temp: 58.5°F</div> </div>							
Date:	9-20-17	Frame(HH:MM:SS)	11:02:14	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-20-17	Frame(HH:MM:SS)	11:04:16	Date:	9-20-17	Frame(HH:MM:SS)	11:04:18
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Feature #2

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-20-17	Frame(HH:MM:SS)	11:04:07	Date:		Frame(HH:MM:SS)	
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	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/20/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H
Pipe Support Anchor:	W-4 (W-2A / W-2B)	Water Depth (ft):	█
Longitude:	█	Latitude:	█

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 2 – 1:17:51	11:11:34
		Video 2 – 1:34:14	11:27:56

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
1	10' north at top of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	11:23:00
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1- possible patches of dislodged coating, 10' north of anchor

Video Reference: Video 2 – 1:28:31 Time: 11:22:13

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/20/2017 11:14:55 AM
W-2A / W-2B



Temp: 58.1 °F

Date: 9-20-17

Frame(HH:MM:SS)

11:14:55

Date:

Frame(HH:MM:SS)

Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/20/2017 11:14:52 AM
W-2A / W-2B



Temp: 58.0 °F

Date: 9-20-17

Frame(HH:MM:SS)

11:14:52

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-20-17	Frame(HH:MM:SS)	11:23:46	Date:		Frame(HH:MM:SS)	
Comments:							

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-20-17	Frame(HH:MM:SS)	11:23:25	Date:	9-20-17	Frame(HH:MM:SS)	11:23:26
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[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-20-17	Frame(HH:MM:SS)	1:33:12	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor


For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-20-17	Frame(HH:MM:SS)	11:42:23	Date:		Frame(HH:MM:SS)	
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Comments:

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="92 367 789 888"> <div>9/20/2017 11:39:45 AM W-6A / W-6B</div>  <div>Temp: 57.5 °F</div> </div>							
Date:	9-20-17	Frame(HH:MM:SS)	11:39:45	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/20/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-6 (W-12A / W-12B)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 2 – 1:58:56	11:52:38
		Video 2 – 2:15:28	12:09:10

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
1	0 to 15' north at top of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	12:01:37
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
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		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1 - possible patches of dislodged coating on north side of anchor, from anchor to 15' on top, east, and west sides of pipe
 Video Reference: Video 2 - 2:07:55 Time: 12:01:37

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/20/2017 12:01:48 PM
W-12A / W-12B



Temp: 59.0 °F

Date: 9-20-17

Frame(HH:MM:SS)

12:01:48

Date:

Frame(HH:MM:SS)

Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/20/2017 12:03:39 PM
W-12A / W-12B



Temp: 58.7 °F

Date: 9-20-17

Frame(HH:MM:SS)

12:03:39

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 12:06:36 PM
W-12A / W-12B



Temp: 58.4 °F

Date: 9-20-17

Frame(HH:MM:SS)

12:06:36

Date:

Frame(HH:MM:SS)

Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 12:04:23 PM
W-12A / W-12B



Temp: 58.6 °F

Date: 9-20-17

Frame(HH:MM:SS)

12:04:23

9/20/2017 12:03:13 PM
W-12A / W-12B



Temp: 58.8 °F

Date: 9-20-17

Frame(HH:MM:SS)

12:03:13


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1 - possible dislodged coating. From 1 -10' North of anchor, on top and west sides of pipe.
 Video Reference: Video 2 - 2:27:27 Time: 12:21:09

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 12:15:54 PM
W-13A / W-13B



Temp: 58.0 °F

Date: 9-20-17 Frame(HH:MM:SS) 12:15:54

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 12:19:44 PM
W-13A / W-13B



Temp: 57.9 °F

Date: 9-20-17 Frame(HH:MM:SS) 12:19:44

9/20/2017 12:27:50 PM
W-13A / W-13B



Temp: 57.7 °F

Date: 9-20-17 Frame(HH:MM:SS) 12:27:50

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-20-17	Frame(HH:MM:SS)	12:21:16	Date:		Frame(HH:MM:SS)	
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Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-20-17	Frame(HH:MM:SS)	12:27:44	Date:	9-20-17	Frame(HH:MM:SS)	12:26:08
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[illegible]



ROV Inspection Form for L5 Straits of Mackinac

Dislodged coating observed on
the lake floor: ☐ YES ☒ NO

Pipe Location w.r.t. Lake Floor:
(ie. partially buried, fully suspended)

Fully suspended

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/20/2017 2:03:19 PM
W-18A-A / W-18A South



Date:	9-20-17	Frame(HH:MM:SS)	14:03:19	Date:		Frame(HH:MM:SS)	
Comments:							

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/20/2017 2:06:27 PM
W-18A-A / W-18A South



Date:	9-20-17	Frame(HH:MM:SS)	14:06:27	Date:		Frame(HH:MM:SS)	
Comments:							



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/20/2017 2:08:32 PM
W-18A-A / W-18A South



Temp: 58.0 °F

Date:	9-20-17	Frame(HH:MM:SS)	14:08:32	Date:		Frame(HH:MM:SS)	
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Comments:


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
--	--	-----------------

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-20-17 Frame(HH:MM:SS) 14:16:55

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.




Date: 9-20-17 Frame(HH:MM:SS) 14:20:55

Date: Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 556 423 615"> <p>9/20/2017 2:24:07 PM W-18A South / W-18A North</p> </div>  <div data-bbox="99 1024 261 1056"> <p>Temp: 55.9 °F</p> </div>							
Date:	9-20-17	Frame(HH:MM:SS)	14:24:07	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/20/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-10 (W-18A North / W-18B South)	Water Depth (ft):	█
Longitude:	█	Latitude:	█

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 3 – 0:29:55	14:28:52
		Video 3 – 0:44:44	14:43:41

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

There were no holidays, area of interest, or unusual characteristics observed around this anchor.

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 2:33:03 PM
W-18A North / W-18B South



Date:	9-20-17	Frame(HH:MM:SS)	14:33:03	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 2:37:00 PM
W-18A North / W-18B South



Date:	9-20-17	Frame(HH:MM:SS)	14:37:00	Date:		Frame(HH:MM:SS)	
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Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/20/2017 2:40:19 PM
W-18A North / W-18B South



Temp: 54.9 °F

Date: 9-20-17

Frame(HH:MM:SS)

14:40:19

Date:

Frame(HH:MM:SS)

Comments:

[illegible]


	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1 – Potential deposit. 8’ south of anchor on top of pipe in an area approx. 1’x 6”
 Video Reference: Video 3 – 0:52:03 Time: 14:51:00

Note: Video 3 was ended accidentally while inspecting anchor. Video 4 picks up immediately after Video 3.

	12/14/17
Contractor Signature	Date

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-20-17	Frame(HH:MM:SS)	14:53:58	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p>Comments:</p> <p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-20-17	Frame(HH:MM:SS)	15:00:56	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

Feature #1							
<p>Comments:</p> <p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-20-17	Frame(HH:MM:SS)	14:52:28	Date:	9-20-17	Frame(HH:MM:SS)	14:52:59

General Information

Date:	09/20/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-12 (W-24A / W-24B)	Water Depth (ft):	████
Longitude:	██████████	Latitude:	██████████

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 4 – 0:07:38	15:06:36
		Video 4 – 0:24:29	15:23:28


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended


Comments/Issues/Discussion


There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/14/17
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	ROV Inspection Form for L5 Straits of Mackinac
---	---

Contractor Signature	Date

Overall South Affected Area											
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>											
<div style="border: 1px solid black; padding: 5px;"> <div style="font-size: small; margin-bottom: 5px;">9/20/2017 3:20:02 PM W-24A / W-24B</div>  </div>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Date:</td> <td style="width: 15%;">9-20-17</td> <td style="width: 15%;">Frame(HH:MM:SS)</td> <td style="width: 15%;">15:20:02</td> <td style="width: 15%;">Date:</td> <td style="width: 15%;"></td> <td style="width: 15%;">Frame(HH:MM:SS)</td> <td style="width: 15%;"></td> </tr> </table>								Date:	9-20-17	Frame(HH:MM:SS)	15:20:02
Date:	9-20-17	Frame(HH:MM:SS)	15:20:02	Date:		Frame(HH:MM:SS)					
Comments:											

Anchor											
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>											
<div style="border: 1px solid black; padding: 5px;"> <div style="font-size: small; margin-bottom: 5px;">9/20/2017 3:13:00 PM W-24A / W-24B</div>  </div>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Date:</td> <td style="width: 15%;">9-20-17</td> <td style="width: 15%;">Frame(HH:MM:SS)</td> <td style="width: 15%;">15:13:00</td> <td style="width: 15%;">Date:</td> <td style="width: 15%;"></td> <td style="width: 15%;">Frame(HH:MM:SS)</td> <td style="width: 15%;"></td> </tr> </table>								Date:	9-20-17	Frame(HH:MM:SS)	15:13:00
Date:	9-20-17	Frame(HH:MM:SS)	15:13:00	Date:		Frame(HH:MM:SS)					

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-20-17	Frame(HH:MM:SS)	15:23:05	Date:		Frame(HH:MM:SS)	
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Comments:


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended


Comments/Issues/Discussion


Feature 1 - possible dislodged coating. 10' south from anchor at 11-12 o'clock
 Video Reference: Video 4 – 0:31:32 Time: 15:30:30

	12/14/17
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	ROV Inspection Form for L5 Straits of Mackinac
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Contractor Signature	Date

Overall South Affected Area							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div style="border: 1px solid black; padding: 5px;"> <div style="font-size: small; margin-bottom: 5px;">9/20/2017 3:30:20 PM W-23A / W-23B</div>  <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 10px;"> <div style="background-color: black; width: 80px; height: 20px;"></div> <div style="text-align: right; font-size: x-small;">Temp: 54.8 °F</div> </div> </div>							
Date:	9-20-17	Frame(HH:MM:SS)	15:30:20	Date:		Frame(HH:MM:SS)	
Comments:							

Anchor							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div style="border: 1px solid black; padding: 5px;"> <div style="font-size: small; margin-bottom: 5px;">9/20/2017 3:40:15 PM W-23A / W-23B</div>  <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 10px;"> <div style="background-color: black; width: 80px; height: 20px;"></div> <div style="text-align: right; font-size: x-small;">Temp: 54.6 °F</div> </div> </div>							
Date:	9-20-17	Frame(HH:MM:SS)	15:40:15	Date:		Frame(HH:MM:SS)	

	ROV Inspection Form for L5 Straits of Mackinac
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-20-17	Frame(HH:MM:SS)	15:37:51	Date:		Frame(HH:MM:SS)	
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Comments:

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



ROV Inspection Form for L5 Straits of Mackinac



Date:	9-20-17	Frame(HH:MM:SS)	15:31:27	Date:	9-20-17	Frame(HH:MM:SS)	15:35:42
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General Information

Date:	09/20/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-14 (W-28A South / W-28A North)	Water Depth (ft):	████
Longitude:	██████████	Latitude:	██████████

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 4 – 0:57:02	15:56:00
		Video 4 – 1:15:02	16:14:00

[illegible]


	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1 – Potential Deposit, Approx. 3” x 3” in size. Located top of pipe, 8’ south of anchor.
 Video Reference: Video 4 – 1:02:42 Time: 16:01:40

Feature 2 - Possible dislodged coating. Immediately north of anchor on east side of pipe; Approx. 4o'clock Position.
 Video Reference: Video 4 – 1:11:22 Time: 16:10:20

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-20-17	Frame(HH:MM:SS)	16:01:24	Date:	9-20-17	Frame(HH:MM:SS)	16:06:02
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Comments:


Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:		Frame(HH:MM:SS)		Date:		Frame(HH:MM:SS)	
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	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="92 338 789 856"> <div> 9/20/2017 4:13:34 PM W-28A South / W-28A North </div>  <div> Temp: 55.0 °F </div> </div>							
Date:	9-20-17	Frame(HH:MM:SS)	16:13:34	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-20-17 Frame(HH:MM:SS) 16:01:46

Date: 9-20-17 Frame(HH:MM:SS) 16:02:00

Feature #2

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-20-17 Frame(HH:MM:SS) 16:10:54

Date: 9-20-17 Frame(HH:MM:SS) 16:11:06


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1 – Possible dislodged coating. 0 - 10' south of anchor at top of pipe
 Video Reference: Video 4 – 1:31:02 Time: 16:30:00

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-20-17 Frame(HH:MM:SS) 16:28:35

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-20-17 Frame(HH:MM:SS) 16:39:51

Date: Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 4:36:51 PM
W-28A North / W-28B



Date: 9-20-17

Frame(HH:MM:SS)

16:36:51

Date:

Frame(HH:MM:SS)

Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 4:30:31 PM
W-28A North / W-28B



Date: 9-20-17

Frame(HH:MM:SS)

16:30:31

Date:

Frame(HH:MM:SS)



ROV Inspection Form for L5 Straits of Mackinac


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 4:51:52 PM
W-31A South / W-31A North



Temp: 55.7 °F

Date: 9-20-17 Frame(HH:MM:SS) 16:51:52

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/20/2017 4:56:39 PM
W-31A South / W-31A North




Temp: 55.4 °F

Date: 9-20-17 Frame(HH:MM:SS) 16:56:39

Date: Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
---	---

Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="94 541 423 604"> <p>9/20/2017 4:57:41 PM W-31A South / W-31A North</p> </div> 							
Date:	9-20-17	Frame(HH:MM:SS)	16:57:41	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
--	--	-----------------

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-20-17	Frame(HH:MM:SS)	17:05:53	Date:		Frame(HH:MM:SS)	
Comments:							

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-20-17	Frame(HH:MM:SS)	17:05:54	Date:		Frame(HH:MM:SS)	
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	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-20-17	Frame(HH:MM:SS)	17:10:47	Date:		Frame(HH:MM:SS)	
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Comments:

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/20/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-18 (W-31B South / W-31B)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 4 – 2:18:10	17:17:08
		Video 4 – 2:29:33	17:28:30

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
1	10' south at top of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	17:20:30
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1 – Potential Deposit. Approx 2"x 2" in size. 10' south of anchor at the top of pipe
 Video Reference: Video 4 – 2:21:32 Time: 17:20:30

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/20/2017 5:19:18 PM
W-31B South / W-31B



Temp: 55.5 °F

Date:	9-20-17	Frame(HH:MM:SS)	17:19:18	Date:		Frame(HH:MM:SS)	
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Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/20/2017 5:25:07 PM
W-31B South / W-31B



Temp: 55.8 °F

Date:	9-20-17	Frame(HH:MM:SS)	17:25:07	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/20/2017 5:23:13 PM
W-31B South / W-31B



Temp: 55.8 °F

Date:	9-20-17	Frame(HH:MM:SS)	17:23:13	Date:		Frame(HH:MM:SS)	
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Comments:



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/20/2017 5:21:20 PM
W-31B South / W-31B



Temp: 55.7 °F

9/20/2017 5:21:10 PM
W-31B South / W-31B



Temp: 55.6 °F

Date:	9-20-17	Frame(HH:MM:SS)	17:21:20
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Date:	9-20-17	Frame(HH:MM:SS)	17:21:10
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[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1 – Possible dislodged coating. 4' south of anchor on west side of pipe. Size is approx. 6"x6"

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-21-17 Frame(HH:MM:SS) 16:33:17

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-21-17 Frame(HH:MM:SS) 16:30:21



Date: 9-21-17 Frame(HH:MM:SS) 16:28:36

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 4:38:42 PM
W-34A / W-34B South



Temp: 58.4 °F

Date: 9-21-17

Frame(HH:MM:SS)

16:38:42

Date:

Frame(HH:MM:SS)

Comments:

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/21/2017 4:35:25 PM
W-34A / W-34B South



Temp: 59.5 °F

Date: 9-21-17

Frame(HH:MM:SS)

16:35:25

Date:

Frame(HH:MM:SS)


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

South End of Affected and Non-Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 4:45:00 PM
W-34B South / W-34B North

Temp: 57.2 °F



Date: 9-21-17

Frame(HH:MM:SS)

16:45:00

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 4:52:31 PM
W-34B South / W-34B North

Temp: 56.4 °F



Date: 9-21-17

Frame(HH:MM:SS)

16:52:31

Date:

Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-21-17	Frame(HH:MM:SS)	16:50:08	Date:		Frame(HH:MM:SS)	
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Comments:

[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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		metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended

Comments/Issues/Discussion

Feature 1 – Potential Deposit. 10’ south of anchor at top of pipe, approx. size 3” x 3”
 Video Reference: Video 5 – 00:30:13 Time: 16:58:30

Feature 2 – Potential Deposit. 2’ north of anchor on west side of pipe, about 10 o’clock position.
 Approx. size 2” x 2”.
 Video Reference: Video 5 - 00:37:22 Time: 17:05:39

Feature 3 – Potential Deposit. 2’ north of anchor on east of pipe about 3 o’clock position. Approx.
 size 2” x 3”.
 Video Reference: Video 5 – 00:43:05 Time: 17:11:22

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-21-17	Frame(HH:MM:SS)	16:58:47	Date:		Frame(HH:MM:SS)	
Comments:							

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-21-17	Frame(HH:MM:SS)	16:58:47	Date:		Frame(HH:MM:SS)	
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ROV Inspection Form for L5 Straits of Mackinac

Comments:

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-21-17 Frame(HH:MM:SS) 17:10:11

Date: 9-21-17 Frame(HH:MM:SS) 17:14:37



Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.





ROV Inspection Form for L5 Straits of Mackinac

<p>9/21/2017 5:01:22 PM W-37A / W-37B</p>  <p>Temp: 55.7 °F</p>				<p>9/21/2017 5:02:52 PM W-37A / W-37B</p>  <p>Temp: 55.7 °F</p>			
Date:	9-21-17	Frame(HH:MM:SS)	17:01:22	Date:	9-21-17	Frame(HH:MM:SS)	17:02:52

Feature #2

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

<p>9/21/2017 5:06:17 PM W-37A / W-37B</p>  <p>Temp: 55.6 °F</p>				<p>9/21/2017 5:07:10 PM W-37A / W-37B</p>  <p>Temp: 55.5 °F</p>			
Date:	9-21-17	Frame(HH:MM:SS)	17:06:17	Date:	9-21-17	Frame(HH:MM:SS)	17:07:10

Feature #3

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



ROV Inspection Form for L5 Straits of Mackinac



Date:	9-21-17	Frame(HH:MM:SS)	17:11:39
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Date:	9-21-17	Frame(HH:MM:SS)	17:12:21
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[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended


Comments/Issues/Discussion


Feature 1 – Possible dislodged coating. 3 to 10' north of anchor from east to west of pipe (over top of pipe) about 9 to 3 o'clock possible
 Video Reference: Video 5 – 0:53:22 Time: 17:21:38

	12/14/17
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	ROV Inspection Form for L5 Straits of Mackinac
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Contractor Signature	Date

South End of Affected and Non-Affected Area							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div style="border: 1px solid black; padding: 5px;"> <div style="font-size: small; margin-bottom: 5px;">9/21/2017 5:18:53 PM W-36A / W-36B</div>  <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 10px;"> <div style="background-color: black; width: 100px; height: 20px;"></div> <div style="text-align: right; font-size: x-small;">Temp: 55.5 °F</div> </div> </div>							
Date:	9-21-17	Frame(HH:MM:SS)	17:18:53	Date:		Frame(HH:MM:SS)	
Comments:							

Anchor							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div style="border: 1px solid black; padding: 5px;"> <div style="font-size: small; margin-bottom: 5px;">9/21/2017 5:22:48 PM W-36A / W-36B</div>  <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 10px;"> <div style="background-color: black; width: 100px; height: 20px;"></div> <div style="text-align: right; font-size: x-small;">Temp: 55.5 °F</div> </div> </div>							
Date:	9-21-17	Frame(HH:MM:SS)	17:22:48	Date:		Frame(HH:MM:SS)	

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-21-17	Frame(HH:MM:SS)	17:22:46	Date:		Frame(HH:MM:SS)	
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Comments:

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-21-17	Frame(HH:MM:SS)	17:23:58	Date:	9-21-17	Frame(HH:MM:SS)	17:24:11
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General Information

Date:	09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-23 (W-35A / W-35B South)	Water Depth (ft):	█
Longitude:	█	Latitude:	█

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 5 – 1:04:02	17:32:19
		Video 5 – 1:14:28	17:42:45


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/14/17
Contractor Signature	Date

	ROV Inspection Form for L5 Straits of Mackinac
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Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-21-17

Frame(HH:MM:SS)

17:33:50

Date:

Frame(HH:MM:SS)

Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-21-17

Frame(HH:MM:SS)


17:42:28

Date:

Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 548 354 606"> <p>9/21/2017 5:39:09 PM W-35A / W-35B South</p> </div>  <div data-bbox="99 1016 261 1045"> <p>Temp: 55.2 °F</p> </div>							
Date:	9-21-17	Frame(HH:MM:SS)	17:39:09	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 5:45:56 PM
W-35B South / W-35B North



Temp: 55.1 °F

Date: 9-21-17 Frame(HH:MM:SS) 17:45:56

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 5:54:08 PM
W-35B South / W-35B North




Temp: 55.1 °F

Date: 9-21-17 Frame(HH:MM:SS) 17:54:08

Date: Frame(HH:MM:SS)

Comments:

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="92 436 787 955"> <div>9/21/2017 5:50:29 PM W-35B South / W-35B North</div>  </div>							
Date:	9-21-17	Frame(HH:MM:SS)	17:50:29	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

General Information

Date:	09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-25 (W-39 / W-40)	Water Depth (ft):	████
Longitude:	██████████	Latitude:	██████████

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 5 – 1:31:07	17:59:23
		Video 5 – 1:42:03	18:10:20


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 6:01:37 PM
W-39 / W-40



Temp: 55.7 °F

Date:	9-21-17	Frame(HH:MM:SS)	18:01:37	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 6:05:09 PM
W-39 / W-40




Temp: 55.8 °F

Date:	9-21-17	Frame(HH:MM:SS)	18:05:09	Date:		Frame(HH:MM:SS)	
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Comments:

	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-21-17	Frame(HH:MM:SS)	18:09:55	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

General Information

Date:	09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-26 (W-41A South / W-41A North)	Water Depth (ft):	█
Longitude:	█	Latitude:	█

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 5 – 1:45:28	18:13:45
		Video 5 – 1:55:34	18:23:51


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 6:15:50 PM
W-41A South / W-41A North

Temp: 55.7 °F



Date:	9-21-17	Frame(HH:MM:SS)	18:15:50	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 6:21:20 PM
W-41A South / W-41A North


Temp: 55.4 °F



Date:	9-21-17	Frame(HH:MM:SS)	18:21:20	Date:		Frame(HH:MM:SS)	
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	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-21-17	Frame(HH:MM:SS)	18:21:18	Date:		Frame(HH:MM:SS)	
Comments:							

General Information

Date:	09/21/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-27 (W-41A North / W-41B)	Water Depth (ft):	████
Longitude:	██████████	Latitude:	██████████

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 5 – 1:56:56	18:25:13
		Video 5 – 2:08:28	18:36:45

ROV Visual Inspection Results


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1 – Possible dislodged coating. Starting at anchor to 10’ south of anchor; various points from 10 to 1 o’clock
 Video Reference: Video 5 – 2:00:12 Time: 18:28:30

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-21-17	Frame(HH:MM:SS)	18:28:13	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-21-17	Frame(HH:MM:SS)	18:29:53	Date:		Frame(HH:MM:SS)	
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ROV Inspection Form for L5 Straits of Mackinac

Comments:

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 6:31:22 PM
W-41A North / W-41B



9/21/2017 6:34:04 PM
W-41A North / W-41B



Date: 9-21-17 Frame(HH:MM:SS) 18:31:22

Date: 9-21-17 Frame(HH:MM:SS) 18:34:04

Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/21/2017 6:29:34 PM
W-41A North / W-41B



9/21/2017 6:28:34 PM
W-41A North / W-41B



Date:	9-21-17	Frame(HH:MM:SS)	18:29:34	Date:	9-21-17	Frame(HH:MM:SS)	18:28:34
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[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended

Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed around this anchor.

	12/14/17
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	ROV Inspection Form for L5 Straits of Mackinac
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Contractor Signature	Date
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Overall South Affected Area							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div data-bbox="99 514 354 577"> 9/21/2017 6:41:54 PM W-43A / W-43B </div>  <div data-bbox="99 982 264 1018"> Temp: 54.7 °F </div>							
Date:	9-21-17	Frame(HH:MM:SS)	18:41:54	Date:		Frame(HH:MM:SS)	
Comments:							

Anchor							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div data-bbox="99 1388 354 1451"> 9/21/2017 6:48:09 PM W-43A / W-43B </div>  <div data-bbox="99 1858 264 1894"> Temp: 54.8 °F </div>							
Date:	9-21-17	Frame(HH:MM:SS)	18:48:09	Date:		Frame(HH:MM:SS)	

	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-21-17	Frame(HH:MM:SS)	18:46:09	Date:		Frame(HH:MM:SS)	
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Comments:

General Information

Date:	09/22/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-29 (W-42A / W-42B)	Water Depth (ft):	████
Longitude:	██████████	Latitude:	██████████

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 1 – 0:02:56	08:47:06
		Video 1 – 0:14:16	08:58:25

ROV Visual Inspection Results


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended


Comments/Issues/Discussion


There were no holidays, area's of interest, or other unusual characteristics observed at this anchor.

	12/14/17
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	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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<p>Contractor Signature</p>	<p>Date</p>
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Overall South Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 552 354 615"> <p>9/22/2017 8:49:21 AM W-42A / W-43B</p> </div>  <div data-bbox="99 1020 264 1052"> <p>Temp: 55.3 °F</p> </div>							
Date:	9-22-17	Frame(HH:MM:SS)	8:49:21	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

Anchor							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 1451 354 1514"> <p>9/22/2017 8:58:13 AM W-42A / W-43B</p> </div>  <div data-bbox="99 1923 264 1955"> <p>Temp: 54.4 °F</p> </div>							

	ROV Inspection Form for L5 Straits of Mackinac
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Date:	9-22-17	Frame(HH:MM:SS)	8:58:13	Date:	Frame(HH:MM:SS)	
Comments:						

Overall North Affected Area							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div style="border: 1px solid black; padding: 5px;"> <div style="font-size: small; margin-bottom: 5px;"> 9/22/2017 8:54:44 AM W-42A / W-43B </div>  </div>				<div style="border: 1px solid black; height: 250px; width: 100%;"></div>			
Date:	9-22-17	Frame(HH:MM:SS)	8:54:44	Date:	Frame(HH:MM:SS)		
Comments:							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, area's of interest, or other unusual characteristics observed at this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 9:09:47 AM
W-51A / W-51B South



Temp: 55.5 °F

Date:	9-22-17	Frame(HH:MM:SS)	9:09:47	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 9:12:47 AM
W-51A / W-51B South




Temp: 55.2 °F

Date:	9-22-17	Frame(HH:MM:SS)	9:12:47	Date:		Frame(HH:MM:SS)	
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Comments:

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 447 354 510"> <p>9/22/2017 9:15:03 AM W-51A / W-51B South</p> </div>  <div data-bbox="99 915 261 947"> <p>Temp: 54.9 °F</p> </div>							
Date:	9-22-17	Frame(HH:MM:SS)	9:15:03	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, area's of interest, or other unusual characteristics observed around this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/22/2017 9:23:50 AM
W-51B South / W-51B North



Temp: 54.2 °F

Date:	9-22-17	Frame(HH:MM:SS)	9:23:50	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*


9/22/2017 9:31:51 AM
W-51B South / W-51B North



Temp: 53.8 °F

	ROV Inspection Form for L5 Straits of Mackinac
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Date:	9-22-17	Frame(HH:MM:SS)	9:31:51	Date:		Frame(HH:MM:SS)	
Comments:							

Overall North Affected Area							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div data-bbox="94 552 789 1066"> <div>9/22/2017 9:29:15 AM W-51B South / W-51B North</div>  </div>							
Date:	9-22-17	Frame(HH:MM:SS)	9:29:17	Date:		Frame(HH:MM:SS)	
Comments:							

[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion


Feature 1: Possible dislodge coating. From anchor to 8' south at top of pipe about 10 o'clock to 2 o'clock.



Video Reference: Video 1 - 0:56:43

Time: 9:40:53

	12/14/17
Contractor Signature	Date

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall South Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-22-17	Frame(HH:MM:SS)	9:40:33	Date:		Frame(HH:MM:SS)	
Comments:							

Anchor							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-22-17	Frame(HH:MM:SS)	9:44:35	Date:	9-22-17	Frame(HH:MM:SS)	9:49:52
Comments:							



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 9:47:03 AM
W-48A / W-48B



Temp: 54.3 °F



Date:	9-22-17	Frame(HH:MM:SS)	9:47:03	Date:		Frame(HH:MM:SS)	
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Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 9:42:28 AM
W-48A / W-48B



Temp: 54.7 °F



9/22/2017 9:42:30 AM
W-48A / W-48B



Temp: 54.7 °F



Date:	9-22-17	Frame(HH:MM:SS)	9:42:28	Date:	9-22-17	Frame(HH:MM:SS)	9:42:30
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[illegible]


	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

NOTE: Video was labeled incorrectly (backwards) as W-53A North / W-53A South.

Feature 1: from anchor to 15' south at top of pipe possible multiple patches of dislodged coating
 Video Reference: Video 1 – 1:18:02 Time: 10:02:12

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 9:59:41 AM
W-53A North / W-53A South



Date: 9-22-17 Frame(HH:MM:SS) 9:59:41

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 10:10:09 AM
W-53A North / W-53A South



Date: 9-22-17 Frame(HH:MM:SS) 10:10:09

Date: Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-22-17	Frame(HH:MM:SS)	10:08:09	Date:		Frame(HH:MM:SS)	
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Comments:

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*





ROV Inspection Form for L5 Straits of Mackinac

Date:	9-22-17	Frame(HH:MM:SS)	10:03:50	Date:	9-22-17	Frame(HH:MM:SS)	10:02:37
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[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, area's of interest, or other unusual characteristics observed around this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 10:15:53 AM
W-53A North / W-53B



Temp: 53.8 °F

Date:	9-22-17	Frame(HH:MM:SS)	10:15:53	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 10:16:06 AM
W-53A North / W-53B




Temp: 53.8 °F

Date:	9-22-17	Frame(HH:MM:SS)	10:16:06	Date:		Frame(HH:MM:SS)	
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	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 548 367 611"> <p>9/22/2017 10:21:07 AM W-53A North / W-53B</p> </div>  <div data-bbox="99 1020 261 1052"> <p>Temp: 53.8 °F</p> </div>							
Date:	9-22-17	Frame(HH:MM:SS)	10:21:07	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



Comments/Issues/Discussion



There were no holidays, area's of interest, or other unusual characteristics observed at this anchor.

	12/14/17
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	ROV Inspection Form for L5 Straits of Mackinac
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Contractor Signature	Date

Overall South Affected Area							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div style="display: flex; justify-content: space-between;"> 9/22/2017 10:30:51 AM W-70A / W70B </div>  <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 10px;"> <div style="background-color: black; width: 80px; height: 20px;"></div> <div style="text-align: center;">  </div> </div> <div style="margin-top: 5px;">Temp: 53.9 °F</div>							
Date:	9-22-17	Frame(HH:MM:SS)	10:30:51	Date:		Frame(HH:MM:SS)	
Comments:							

Anchor							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div style="display: flex; justify-content: space-between;"> 9/22/2017 10:38:38 AM W-70A / W70B </div>  <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 10px;"> <div style="background-color: black; width: 80px; height: 20px;"></div> <div style="text-align: center;">  </div> </div> <div style="margin-top: 5px;">Temp: 53.8 °F</div>							
Date:	9-22-17	Frame(HH:MM:SS)	10:38:38	Date:		Frame(HH:MM:SS)	

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 548 367 606"> <p>9/22/2017 10:35:28 AM W-70A / W70B</p> </div>  <div data-bbox="99 1016 261 1045"> <p>Temp: 53.9 °F</p> </div>							
Date:	9-22-17	Frame(HH:MM:SS)	10:35:28	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended


Comments/Issues/Discussion


Feature 1 – Potential Deposit. 12’ south of anchor at top of pipe. Approx. 2”x2”
 Video Reference: Video 1 – 1:58:08 Time: 10:42:18

	12/14/17
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	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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<p align="center">Contractor Signature</p>	<p align="center">Date</p>

Overall South Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div style="border: 1px solid black; padding: 5px;"> <p>9/22/2017 10:42:03 AM W-69A / W-69B</p>  <p>Temp: 53.7 °F</p> </div>							
Date:	9-22-17	Frame(HH:MM:SS)	10:42:03	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

Anchor							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div style="border: 1px solid black; padding: 5px;"> <p>9/22/2017 10:50:07 AM W-69A / W-69B</p>  <p>Temp: 53.7 °F</p> </div>							
Date:	9-22-17	Frame(HH:MM:SS)	10:50:07	Date:		Frame(HH:MM:SS)	

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-22-17	Frame(HH:MM:SS)	10:50:05	Date:		Frame(HH:MM:SS)	
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Comments:



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-22-17	Frame(HH:MM:SS)	10:42:24
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Date:	9-22-17	Frame(HH:MM:SS)	10:46:35
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[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1– Possible dislodged coating. 7’ north of anchor on east, top, & west of pipe
 Video Reference: Video 2 – 0:06:06 Time: 11:31:42

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-22-17	Frame(HH:MM:SS)	11:30:34	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor


For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-22-17	Frame(HH:MM:SS)	11:36:08	Date:		Frame(HH:MM:SS)	
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	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-22-17	Frame(HH:MM:SS)	11:34:57	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-22-17	Frame(HH:MM:SS)	11:31:44	Date:	9-22-17	Frame(HH:MM:SS)	11:32:07
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[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, area's of interest, or other unusual characteristics observed at this anchor.


	12/14/17
Contractor Signature	Date

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall South Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 443 367 506"> <p>9/22/2017 11:41:16 AM W-68A North / W-68B</p> </div>  <div data-bbox="99 915 261 947"> <p>Temp: 54.3 °F</p> </div>							
Date:	9-22-17	Frame(HH:MM:SS)	11:41:16	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

Anchor							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 1320 367 1383"> <p>9/22/2017 11:41:16 AM W-68A North / W-68B</p> </div>  <div data-bbox="99 1782 261 1814"> <p>Temp: 54.3 °F</p> </div>							
Date:	9-22-17	Frame(HH:MM:SS)	11:41:16	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="90 436 787 955"> <div>9/22/2017 11:47:35 AM W-68A North / W-68B</div>  </div>							
Date:	9-22-17	Frame(HH:MM:SS)	11:47:35	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended

Comments/Issues/Discussion

There were no holidays, area's of interest, or other unusual characteristics around this anchor.


	12/14/17
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	ROV Inspection Form for L5 Straits of Mackinac
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Contractor Signature	Date

Overall South Affected Area							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> 9/22/2017 12:03:11 PM W-71A / W-71B </div>  <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="background-color: black; width: 80px; height: 20px;"></div>  </div> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> Temp: 54.4 °F </div> </div>				<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> 9/22/2017 12:08:19 PM W-71A / W-71B </div>  <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="background-color: black; width: 80px; height: 20px;"></div>  </div> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> Temp: 54.2 °F </div> </div>			
Date:	9-22-17	Frame(HH:MM:SS)	12:03:11	Date:	9-22-17	Frame(HH:MM:SS)	12:08:19
Comments:							

Anchor	
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>	
<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> 9/22/2017 12:10:32 PM W-71A / W-71B </div>  <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="background-color: black; width: 80px; height: 20px;"></div>  </div> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> Temp: 54.2 °F </div> </div>	

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p>Comments: <i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 348 370 411"> <p>9/22/2017 12:08:21 PM W-71A / W-71B</p> </div> 							
Date:	9-22-17	Frame(HH:MM:SS)	12:08:21	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	fully suspended
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Comments/Issues/Discussion

There were no holidays, area's of interest, or other unusual characteristics observed around this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 12:23:51 PM
W-71B / W-72A South

Temp: 54.6 °F



Date: 9-22-17 Frame(HH:MM:SS) 12:23:51

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 12:23:51 PM
W-71B / W-72A South

Temp: 54.6 °F



Date: 9-22-17 Frame(HH:MM:SS) 12:23:51

9/22/2017 12:26:59 PM
W-71B / W-72A South


Temp: 54.6 °F



Date: 9-22-17 Frame(HH:MM:SS) 12:26:59

	ROV Inspection Form for L5 Straits of Mackinac
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-22-17	Frame(HH:MM:SS)	12:31:13	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

General Information

Date:	09/22/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-41 (W-72A South / W-72A North)	Water Depth (ft):	████
Longitude:	██████████	Latitude:	██████████

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 2 – 1:10:06	12:35:43
		Video 2 – 1:19:48	12:45:25

ROV Visual Inspection Results


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, area's of interest, or unusual characteristics observed around this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 12:37:03 PM
W-72A South / W-72A North



Temp: 54.2 °F

Date: 9-22-17

Frame(HH:MM:SS)

12:37:03

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 12:40:17 PM
W-72A South / W-72A North



Temp: 54.2 °F

Date: 9-22-17

Frame(HH:MM:SS)

12:40:17

Date:

Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-22-17	Frame(HH:MM:SS)	12:45:07	Date:		Frame(HH:MM:SS)	
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Comments:

General Information

Date:	09/22/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-42 (W-72A North / W-72B South)	Water Depth (ft):	████
Longitude:	████████	Latitude:	██████████

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	Video 2 – 1:22:06	12:47:43
		Video 2 – 1:33:59	12:59:35


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1 – Potential Deposit. 5’ North of anchor at top of pipe. Approx. 3” x 3”
 Video Reference: Video 2 – 1:28:20 Time: 12:53:56

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 12:50:13 PM
W-72A North / W-72B South

Temp: 54.2 °F



Date: 9-22-17

Frame(HH:MM:SS)

12:50:13

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 12:50:12 PM
W-72A North / W-72B South

Temp: 54.2 °F



Date: 9-22-17

Frame(HH:MM:SS)

12:50:12

Date:

Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-22-17	Frame(HH:MM:SS)	12:53:29	Date:		Frame(HH:MM:SS)	
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Comments:

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-22-17	Frame(HH:MM:SS)	12:54:24	Date:	9-22-17	Frame(HH:MM:SS)	12:55:09
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General Information

ROV Visual Inspection Log

ROV Visual Inspection Results


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, areas of interest, or unusual characteristics observed at this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-22-17	Frame(HH:MM:SS)	13:03:29	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-22-17	Frame(HH:MM:SS)	13:03:28	Date:		Frame(HH:MM:SS)	
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	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-22-17	Frame(HH:MM:SS)	13:07:43	Date:		Frame(HH:MM:SS)	
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Comments:


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, area's of interest, or unusual characteristics observed at this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 1:14:12 PM
W-72B North / W-72C

Temp: 53.6 °F



Date: 9-22-17

Frame(HH:MM:SS)

13:14:12

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 1:19:44 PM
W-72B North / W-72C

Temp: 53.9 °F



Date: 9-22-17

Frame(HH:MM:SS)


13:19:44

Date:

Frame(HH:MM:SS)

	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 552 354 611"> <p>9/22/2017 1:21:22 PM W-72B North / W-72C</p> </div>  <div data-bbox="99 1020 261 1052"> <p>Temp: 53.8 °F</p> </div>							
Date:	9-22-17	Frame(HH:MM:SS)	13:21:22	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

General Information

ROV Visual Inspection Log

ROV Visual Inspection Results


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended

Comments/Issues/Discussion


There were no holidays, areas of interest, or other unusual characteristics observed around this anchor.

	12/14/17
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	ROV Inspection Form for L5 Straits of Mackinac
---	---

Contractor Signature	Date

Overall South Affected Area							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div style="border: 1px solid black; padding: 5px;"> <div style="font-size: small; margin-bottom: 5px;">9/22/2017 1:35:07 PM W-54A / W-54B</div>  <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 10px;"> <div style="border: 1px solid black; width: 80px; height: 20px; background-color: black;"></div> <div style="font-size: x-small;">Temp: 55.1 °F</div> </div> </div>							
Date:	9-22-17	Frame(HH:MM:SS)	13:35:07	Date:		Frame(HH:MM:SS)	
Comments:							

Anchor							
<i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i>							
<div style="border: 1px solid black; padding: 5px;"> <div style="font-size: small; margin-bottom: 5px;">9/22/2017 1:43:22 PM W-54A / W-54B</div>  <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 10px;"> <div style="border: 1px solid black; width: 80px; height: 20px; background-color: black;"></div> <div style="font-size: x-small;">Temp: 53.8 °F</div> </div> </div>							
Date:	9-22-17	Frame(HH:MM:SS)	13:43:22	Date:		Frame(HH:MM:SS)	



ROV Inspection Form for L5 Straits of Mackinac

Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/22/2017 1:46:18 PM
W-54A / W-54B



Temp: 53.5 °F

9/22/2017 1:45:00 PM
W-54A / W-54B



Temp: 53.6 °F

Date: 9-22-17 Frame(HH:MM:SS) 13:46:18

Date: 9-22-17 Frame(HH:MM:SS) 13:45:00

Comments:


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended

Comments/Issues/Discussion



Feature 1 – Potential Deposit on North Side of anchor and top/east side of pipe approx. 8' North. Roughly 1:00 to 3:00 position on pipe. Deposit measures approx. 1" x 5" in size.
 Video Reference: Video 3 – 27:51 Time: 14:52:02

	12/14/17
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	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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<p align="center">Contractor Signature</p>	<p align="center">Date</p>
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Overall South Affected Area							
<p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-22-17	Frame(HH:MM:SS)	14:46:02	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

Anchor							
<p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
							
Date:	9-22-17	Frame(HH:MM:SS)	14:34:40	Date:	9-22-17	Frame(HH:MM:SS)	2:59:14



ROV Inspection Form for L5 Straits of Mackinac

Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-22-17	Frame(HH:MM:SS)	14:58:55	Date:	9-22-17	Frame(HH:MM:SS)	14:52:54
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Comments:



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/22/2017 2:52:49 PM
W-57A / W-57B



Temp: 54.1 °F

9/22/2017 2:54:00 PM
W-57A / W-57B



Temp: 54.0 °F

Date:

Frame(HH:MM:SS)

Date:

Frame(HH:MM:SS)

General Information

ROV Visual Inspection Log

ROV Visual Inspection Results


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1 – Possible dislodged coating. 15' south of anchor at top of pipe
 Video Reference: Video 3 – 0:45:48 Time: 15:09:00

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 3:24:37 PM
W-59A South / W-59A North

Temp: 53.0 °F



Date: 9-22-17

Frame(HH:MM:SS)

15:24:37

Date:

Frame(HH:MM:SS)

Comments:

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 3:13:17 PM
W-59A-A / W-59A South

Temp: 54.3 °F



Date: 9-22-17

Frame(HH:MM:SS)

15:13:17

Date:

Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-22-17	Frame(HH:MM:SS)	15:09:17	Date:		Frame(HH:MM:SS)	
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[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

There were no holidays, area's of interest, or other unusual characteristics observed at this anchor.

	12/14/17
Contractor Signature	Date

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 447 423 510"> <p>9/22/2017 3:29:07 PM W-59A South / W-59A North</p> </div>  <div data-bbox="99 915 261 947"> <p>Temp: 52.8 °F</p> </div>							
Date:	9-22-17	Frame(HH:MM:SS)	15:29:07	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
--	--	-----------------


Comments/Issues/Discussion

Feature 1 – Potential Deposit: 15’ south of anchor, top of pipe 11 to 12 o’clock position, approx. 1”x 3”

Video Reference: Video 3 – 1:12:48 Time: 15:37:00

Feature 2 – Potential Deposit: 2’ south of pipe, top of pipe 12 o’clock position, approx. 3”x12”

Video Reference: Video 3 – 1:16:43 Time: 15:40:55

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 3:36:51 PM
W-59A North / W-59B South

Temp: 52.8 °F



Date: 9-22-17

Frame(HH:MM:SS)

15:36:51

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 3:45:32 PM
W-59A North / W-59B South

Temp: 53.1 °F



	ROV Inspection Form for L5 Straits of Mackinac
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Date:	9-22-17	Frame(HH:MM:SS)	15:45:32	Date:		Frame(HH:MM:SS)	
Comments:							

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-22-17	Frame(HH:MM:SS)	15:49:22	Date:		Frame(HH:MM:SS)	
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Comments:							
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ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/22/2017 3:40:13 PM
W-59A North / W-59B South



Temp: 53.0 °F

9/22/2017 3:38:54 PM
W-59A North / W-59B South



Temp: 52.9 °F

Date:	9-22-17	Frame(HH:MM:SS)	15:40:13
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Date:	9-22-17	Frame(HH:MM:SS)	15:38:54
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Feature #2

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/22/2017 3:43:04 PM
W-59A North / W-59B South



Temp: 53.0 °F

9/22/2017 3:42:50 PM
W-59A North / W-59B South



Temp: 53.0 °F

Date:	9-22-17	Frame(HH:MM:SS)	15:43:04
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Date:	9-22-17	Frame(HH:MM:SS)	15:42:50
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[illegible]


	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

****NOTE:** Video and pictures are **mislabeled** as “W-59B South / W-58A South”

There were no holidays, area’s of interest, or other unusual characteristics observed at this anchor.

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/22/2017 3:55:04 PM
W-59B South / W-58A South

Temp: 53.0 °F



Date: 9-22-17

Frame(HH:MM:SS)

15:55:04

Date:

Frame(HH:MM:SS)

Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/22/2017 3:52:50 PM
W-59B South / W-58A South

Temp: 52.9 °F



Date: 9-22-17

Frame(HH:MM:SS)

15:52:50

Date:

Frame(HH:MM:SS)



ROV Inspection Form for L5 Straits of Mackinac

Comments:

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/22/2017 3:59:04 PM
W-59B South / W-58A South



Temp: 53.0 °F

Date: 9-22-17

Frame(HH:MM:SS)

15:59:04

Date:

Frame(HH:MM:SS)

Comments:

[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1– Potential Deposit. East side of pipe, 3-5 o'clock position, directly below anchor 4" wide by 8" wide


Video Reference: Video 3 – 1:44:08 Time: 16:08:19

Feature 2 - Possible dislodged coating. Various spots starting from anchor to 15' south, mostly top of pipe.

Video Reference: Video 3 – 1:47:35 Time: 16:11:47

Feature 3 - Possible dislodged coating. Starting 5' north of anchor to 10' North of anchor, ranging from east to top to west sides of pipe.

Video Reference: Video 3 – 1:54:44 Time: 16:18:56

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 4:11:49 PM
W-59B North / W-58A South

Temp: 53.3 °F



Date: 9-22-17

Frame(HH:MM:SS)

16:11:49

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 4:22:03 PM
W-59B North / W-58A South

Temp: 53.1 °F



Date:

Frame(HH:MM:SS)

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-22-17 Frame(HH:MM:SS) 16:09:49

Date: 9-22-17 Frame(HH:MM:SS) 16:09:04

Feature #2

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-22-17 Frame(HH:MM:SS) 16:12:27

Date: Frame(HH:MM:SS)



ROV Inspection Form for L5 Straits of Mackinac

Feature #3

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-22-17	Frame(HH:MM:SS)	16:19:02	Date:		Frame(HH:MM:SS)	
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General Information

ROV Visual Inspection Log

ROV Visual Inspection Results

[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	fully suspended
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Comments/Issues/Discussion

Feature 1 - Possible dislodged coating in various areas from anchor to 15' south. 10 o'clock to 2' oclock position on Pipe


Video Reference: Video 3 – 2:02:43 Time: 16:27:00

Feature 2 – Potential Deposit, 1' south of anchor at 10 o'clock position on west Side. Approx. 2" diameter

Video Reference: Video 3 – 2:04:13 Time: 16:28:25

Feature 3 – Potential Deposit, 1' north of anchor at 9 o'clock position on west side. Approx. 4" diameter

Video Reference: Video 3 – 2:10:35 Time: 16:34:47

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 4:26:48 PM
W-58A South / W-58A North

Temp: 53.0 °F



Date: 9-22-17 Frame(HH:MM:SS) 16:26:48

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/22/2017 4:35:55 PM
W-58A South / W-58A North

Temp: 52.8 °F



Date: 9-22-17 Frame(HH:MM:SS) 16:35:55

9/22/2017 4:30:37 PM
W-58A South / W-58A North


Temp: 53.0 °F



Date: 9-22-17 Frame(HH:MM:SS) 16:30:37

Comments:

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 443 423 506"> <p>9/22/2017 4:33:09 PM W-58A South / W-58A North</p> </div>  <div data-bbox="99 915 261 947"> <p>Temp: 52.9 °F</p> </div>							
Date:	9-22-17	Frame(HH:MM:SS)	16:33:09	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/22/2017 4:27:15 PM
W-58A South / W-58A North



Date: 9-22-17 Frame(HH:MM:SS) 16:27:15

Date: Frame(HH:MM:SS)

Feature #2

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/22/2017 4:28:35 PM
W-58A South / W-58A North



Date: 9-22-17 Frame(HH:MM:SS) 16:28:35

9/22/2017 4:30:04 PM
W-58A South / W-58A North



Date: 9-22-17 Frame(HH:MM:SS) 16:30:04



ROV Inspection Form for L5 Straits of Mackinac

Feature #3

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-22-17	Frame(HH:MM:SS)	16:35:12
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Date:	9-22-17	Frame(HH:MM:SS)	16:35:29
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General Information

ROV Visual Inspection Log

ROV Visual Inspection Results

[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1 – 1 to 15' south of anchor from about 9 o'clock to 3o'clock, possible dislodged coating in various spots

Video Reference: 00:02:17

Time: 8:57:00

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/23/2017 9:00:16 AM
W-58A North / W-58B

Temp: 53.6 °F



Date: 9-23-17

Frame(HH:MM:SS)

9:00:16

Date:

Frame(HH:MM:SS)

Comments:

Anchor

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/23/2017 8:56:44 AM
W-58A North / W-58B

Temp: 53.8 °F



Date: 9-23-17

Frame(HH:MM:SS)


8:56:44


Date:

Frame(HH:MM:SS)

Comments:

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 447 354 510"> <p>9/23/2017 9:02:36 AM W-58A North / W-58B</p> </div>  <div data-bbox="99 915 264 947"> <p>Temp: 53.6 °F</p> </div>							
Date:	9-23-17	Frame(HH:MM:SS)	9:02:36	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

Feature #1							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 1320 354 1383"> <p>9/23/2017 8:56:42 AM W-58A North / W-58B</p> </div>  <div data-bbox="99 1791 264 1822"> <p>Temp: 53.8 °F</p> </div>							
Date:	9-23-17	Frame(HH:MM:SS)	8:56:42	Date:		Frame(HH:MM:SS)	



ROV Inspection Form for L5 Straits of Mackinac

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/23/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-54 (W-60A / W-60B South)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	0:17:34	09:12:16
		0:27:42	09:22:25

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

There were no holidays, area's of interest, or other unusual characteristics observed at this anchor.

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/23/2017 9:14:48 AM
W-60A / W-60B South

Temp: 53.6 °F



Date:	9-23-17	Frame(HH:MM:SS)	9:14:48	Date:		Frame(HH:MM:SS)	
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Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/23/2017 9:12:30 AM
W-60A / W-60B South

Temp: 53.5 °F



Date:	9-23-17	Frame(HH:MM:SS)	9:12:30	Date:		Frame(HH:MM:SS)	
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Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-23-17	Frame(HH:MM:SS)	9:19:57	Date:		Frame(HH:MM:SS)	
Comments:							

General Information

Date:	09/23/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-55 (W-60B South / W-60B North)	Water Depth (ft):	████
Longitude:	██████████	Latitude:	██████████

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	28:40	09:23:20
		39:45	09:34:25


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1 - Potential Deposit. 15' north of anchor at top of pipe approx. 4" x 5"
 Time: 9:29:00 Video Time: 34:42

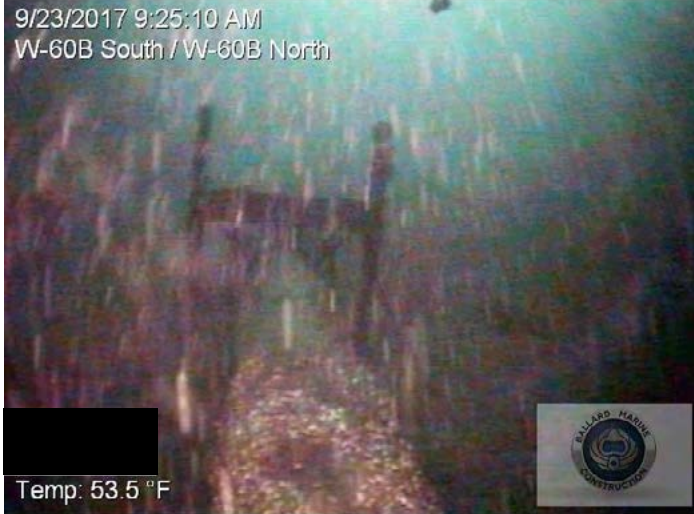
	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-23-17 Frame(HH:MM:SS) 9:25:10

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-23-17 Frame(HH:MM:SS) 9:25:13

Date: Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Temp: 53.5 °F

Date: 9-23-17

Frame(HH:MM:SS)

9:29:25

Date:

Frame(HH:MM:SS)

Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Temp: 53.4 °F

Date: 9-23-17

Frame(HH:MM:SS)

9:29:55

Date:



Temp: 53.4 °F

Date: 9-23-17

Frame(HH:MM:SS)

9:30:08

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/23/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-56 (W-61A / W-61B)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	45:42	09:40:08
		57:20	09:52:05

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature		Video Reference (hh:mm:ss)
1	1' south on east of pipe	<input checked="" type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	09:41:00
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
2	5' south on east to top of pipe	<input checked="" type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	09:43:00
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
3	From anchor to 10' north	<input checked="" type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	09:49:00
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest	<input type="checkbox"/> Holiday (bare metal)	
		<input type="checkbox"/> Deposit	<input type="checkbox"/> Other	



ROV Inspection Form for L5 Straits of Mackinac

Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
Comments/Issues/Discussion		
<p>Feature 1 – Potential Deposit 1’ south of anchor on east side of pipe about 3 o’clock. Size approx. 4”x5”</p> <p>Feature 2 – Potential Deposit 5’ south of anchor at about 3 o’clock to 12 o’clock. Size approx. 1” x 18”</p> <p>Feature 3 – Possible dislodged coating from anchor to 10’ north all the way around the pipe.</p>		
	12/14/17	
Contractor Signature	Date	



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/23/2017 9:45:52 AM
W-61A / W-61B



Temp: 53.7 °F



Date: 9-23-17

Frame(HH:MM:SS)

9:45:52

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/23/2017 9:44:36 AM
W-61A / W-61B



Temp: 53.7 °F



Date: 9-23-17

Frame(HH:MM:SS)

9:44:36

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date: 9-23-17

Frame(HH:MM:SS)

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-23-17 Frame(HH:MM:SS) 9:41:51

Date: 9-23-17 Frame(HH:MM:SS) 9:41:21

Feature #2

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-23-17 Frame(HH:MM:SS) 9:43:13

Date: 9-23-17 Frame(HH:MM:SS) 9:44:10

Feature 2 Notes: 1st Picture shows view on the east side of pipe, approx. 3:00 position. 2nd Picture shows continuation of possible white spot from above with it terminating at approx. 12:00 position.



ROV Inspection Form for L5 Straits of Mackinac

Feature #3

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-23-17	Frame(HH:MM:SS)	9:49:01	Date:		Frame(HH:MM:SS)	
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Feature 3 Notes: Picture shows possible dislodged coating beginning at anchor and continuing to the north.


[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended


Comments/Issues/Discussion


There were no holidays, areas of interest, or other unusual characteristics observed at this anchor.

	12/14/17
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	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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<p align="center">Contractor Signature</p>	<p align="center">Date</p>
---	-----------------------------------

Overall South Affected Area							
<p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="92 527 787 1050"> <p>9/23/2017 10:10:18 AM W-63A / W-63B</p>  </div>							
Date:	9-23-17	Frame(HH:MM:SS)	10:10:18	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

Anchor							
<p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="92 1423 787 1934"> <p>9/23/2017 10:06:27 AM W-63A / W-63B</p>  </div>							

	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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Overall North Affected Area							
<p>Comments: <i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="90 336 789 856"> <div>9/23/2017 10:14:33 AM W-63A / W-63B</div>  <div>Temp: 62.3 °F</div> </div>							
Date:	9-23-17	Frame(HH:MM:SS)	10:14:33	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

	ROV Inspection Form for L5 Straits of Mackinac
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General Information

Date:	09/23/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W-58 (W-65A / W-65B)	Water Depth (ft):	
Longitude:		Latitude:	

ROV Visual Inspection Log

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	1:28:06	10:22:49
		1:51:55	10:36:38

ROV Visual Inspection Results

Feature Number	Location of Feature (w.r.t. pipe support)	Visual Classification of Feature	Video Reference (hh:mm:ss)
1	5' south - east side of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	10:24:00
2	5' south – west side of pipe	<input checked="" type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	10:28:00
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended



ROV Inspection Form for L5 Straits of Mackinac

Comments/Issues/Discussion

Feature 1– Potential Deposit, 5’ south of anchor on east side of pipe about 5 o’clock. Size approx. 2” x 2”

Video Reference: 1:29:17

Time: 10:24:00

Feature 2 – Possible dislodged coating 5’ south of anchor on top and west side of pipe, about 9:00 to 12:00.

Video Reference: 1:31:58

Time: 10:26:40

12/14/17

Contractor Signature

Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-23-17 Frame(HH:MM:SS) 10:30:51

Date: Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date: 9-23-17 Frame(HH:MM:SS) 10:30:55

Date: Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Overall North Affected Area

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*

9/23/2017 10:35:25 AM
W-65A / W-65B



Temp: 62.7 °F

Date: 9-23-17

Frame(HH:MM:SS)

10:35:25

Date:

Frame(HH:MM:SS)

Comments:



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/23/2017 10:24:15 AM
W-65A / W-65B



Temp: 63.5 °F

Date: 9-23-17 Frame(HH:MM:SS) 10:24:15

9/23/2017 10:25:41 AM
W-65A / W-65B



Temp: 63.4 °F

Date: 9-23-17 Frame(HH:MM:SS) 10:25:41

Feature #2

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/23/2017 10:28:14 AM
W-65A / W-65B



Temp: 63.2 °F

Date: 9-23-17 Frame(HH:MM:SS) 10:28:14

9/23/2017 10:29:47 AM
W-65A / W-65B



Temp: 63.1 °F

Date: 9-23-17 Frame(HH:MM:SS) 10:29:47

[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1 – Potential Deposit 10’ south of anchor on top of pipe, size approx. 2” x 2”
 Video Reference: 1:45:53 Time: 10:40:36am

Feature 2 – Potential Deposit 10’ north of anchor on east and top of pipe, about 10 to 12 o’clock
 Video Reference: 1:50:17 Time: 10:45:00am

Feature 3 – Possible dislodged coating just north of anchor.
 Video Reference: 1:49:46 Time: 10:44:00am

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/23/2017 10:40:05 AM
W-64A / W-64B South



Temp: 62.6 °F



Date: 9-23-17

Frame(HH:MM:SS)

10:40:05

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/23/2017 10:41:34 AM
W-64A / W-64B South



Temp: 62.6 °F



Date: 9-23-17

Frame(HH:MM:SS)


10:41:34

Date:

Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 552 370 613"> <p>9/23/2017 10:50:02 AM W-64A / W-64B South</p> </div>  <div data-bbox="99 1018 264 1050"> <p>Temp: 62.6 °F</p> </div>							
Date:		Frame(HH:MM:SS)		Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-23-17	Frame(HH:MM:SS)	10:40:36
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Date:	9-23-17	Frame(HH:MM:SS)	10:40:54
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Feature #2

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-23-17	Frame(HH:MM:SS)	10:45:13
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Date:	9-23-17	Frame(HH:MM:SS)	10:47:12
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	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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Feature #3

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-23-17	Frame(HH:MM:SS)	10:44:29	Date:		Frame(HH:MM:SS)	
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General Information

Date:	09/23/2017	Contractor:	Ballard Marine Co
AFE / W.O.#:	20008990	ROV Operator:	Brian H.
Pipe Support Anchor:	W60 (W-64B South / W-64B North)	Water Depth (ft):	█
Longitude:	█	Latitude:	█

	ROV Transit Description (E/W of pipe, travelling N/S)	Video Log (start/end)	Video Reference (hh:mm:ss)
	Inspect South to North	1:56:56	10:51:39
		2:07:17	11:01:56

[illegible]

	ROV Inspection Form for L5 Straits of Mackinac
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Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended
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Comments/Issues/Discussion

Feature 1 – Possible dislodged coating. Starting at anchor and continuing south approx. 10', on top and east side of pipe

Video Reference: 1:57:35 Time: 10:52:17

Feature 2 – Potential Deposit just north of anchor at top of pipe. Size approx. 2" x 3"

Video Reference: 2:04:31 Time: 10:59:14

	12/14/17
Contractor Signature	Date



ROV Inspection Form for L5 Straits of Mackinac

Overall South Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/23/2017 10:53:33 AM
W-64B South / W-64B North



Date: 9-23-17

Frame(HH:MM:SS)

10:53:33

Date:

Frame(HH:MM:SS)

Comments:

Anchor

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.

9/23/2017 10:57:23 AM
W-64B South / W-64B North



Date: 9-23-17

Frame(HH:MM:SS)


10:57:23

Date:

Frame(HH:MM:SS)

	<p>ROV Inspection Form for L5 Straits of Mackinac</p>
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Comments:

Overall North Affected Area							
<p><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="94 541 423 600"> <p>9/23/2017 10:58:45 AM W-64B South / VV-64B North</p> </div> 							
Date:	9-23-17	Frame(HH:MM:SS)	10:58:45	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							



ROV Inspection Form for L5 Straits of Mackinac

Feature #1

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-23-17	Frame(HH:MM:SS)	10:52:17
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Date:	9-23-17	Frame(HH:MM:SS)	11:00:04
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Feature #2

*For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.*



Date:	9-23-17	Frame(HH:MM:SS)	10:59:23
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Date:	9-23-17	Frame(HH:MM:SS)	11:00:04
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[illegible]


	ROV Inspection Form for L5 Straits of Mackinac
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		<input type="checkbox"/> Area of Interest <input type="checkbox"/> Holiday (bare metal) <input type="checkbox"/> Deposit <input type="checkbox"/> Other	
Dislodged coating observed on the lake floor: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		Pipe Location w.r.t. Lake Floor: (ie. partially buried, fully suspended)	Fully suspended

Comments/Issues/Discussion


Feature 1 - Potential Deposits just north of anchor on east of pipe about 4:00 position. One spot is approx. 2"x2", the other is approx. 6" x 6"


Video Reference: 2:13:28 Time: 11:08:10

	12/14/17
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	<p align="center">ROV Inspection Form for L5 Straits of Mackinac</p>
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<p align="center">Contractor Signature</p>	<p align="center">Date</p>
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Overall South Affected Area							
<p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 531 368 590"> <p>9/23/2017 11:05:35 AM W-67A / W-67B</p> </div>  <div data-bbox="99 999 264 1031"> <p>Temp: 63.3 °F</p> </div>							
Date:	9-23-17	Frame(HH:MM:SS)	11:05:35	Date:		Frame(HH:MM:SS)	
<p>Comments:</p>							

Anchor							
<p align="center"><i>For all sections of dislodged coating or holidays, provide pictures below. Included the date and time stamps associated with video surveillance.</i></p>							
<div data-bbox="99 1383 368 1442"> <p>9/23/2017 11:10:59 AM W-67A / W-67B</p> </div>  <div data-bbox="99 1850 264 1881"> <p>Temp: 63.3 °F</p> </div>							
Date:	9-23-17	Frame(HH:MM:SS)	11:10:59	Date:		Frame(HH:MM:SS)	



ROV Inspection Form for L5 Straits of Mackinac

Comments:

Overall North Affected Area

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-23-17	Frame(HH:MM:SS)	11:13:00	Date:		Frame(HH:MM:SS)	
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Comments:

Feature #1

For all sections of dislodged coating or holidays, provide pictures below.
Included the date and time stamps associated with video surveillance.



Date:	9-23-17	Frame(HH:MM:SS)	11:10:07
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Date:	9-23-17	Frame(HH:MM:SS)	11:08:57
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ROV Inspection Form for L5 Straits of Mackinac

