Permittee: RMI Titanium Company Former Sodium Plant
Mailing Address: RMI Titanium Company
                1000 Warren Ave., PO Box 269
                Niles, Ohio  44446
Owner: RMI Titanium Company
       1000 Warren Ave., PO Box 269
       Niles, Ohio  44446
Operator: RMI Titanium Company
          1000 Warren Ave., PO Box 269
          Niles, Ohio  44446
Location: RMI Titanium Company Former Sodium Plant
          600 State Rd.
          Ashtabula, Ohio  44004

US EPA ID: OHD 000 810 242
Issue Date: January 29, 2013
Effective Date: January 29, 2013
Expiration Date: January 29, 2023

AUTHORIZED ACTIVITIES

In reference to the application of RMI Titanium Company Former Sodium Plant for an Ohio Hazardous Waste Facility Installation and Operation Renewal Permit under Ohio Revised Code (ORC) Chapter 3734 and the record in this matter, you are authorized to conduct at the above-named facility the following hazardous waste management activities:

Corrective Action

PERMIT APPROVAL

Scott J. Nally, Director
Ohio Environmental Protection Agency

I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

Date: 1-29-13

This permit approval is based upon the record in this matter which is maintained at the offices of the Ohio Environmental Protection Agency. The Director has considered the application, accompanying information, inspection reports of the facility, a report regarding the facility's compliance or noncompliance with the terms and conditions of its permit and rules adopted by the Director under this chapter, and such other information as is relevant to the operation of the facility. The Director has determined that the facility under the existing permit has a history of compliance with ORC Chapter 3734, rules adopted under it, the existing permit, or orders entered to enforce such requirements that demonstrate sufficient reliability, expertise, and competency to operate the facility henceforth under this chapter, rules adopted under it, and the renewal permit.

Entered into the Journal of the Director this 29 day of January, 2013.

By [Signature] of the Ohio Environmental Protection Agency.
MODULE A - GENERAL PERMIT CONDITIONS

A. GENERAL PERMIT CONDITIONS

A.1 Effect of Permit
ORC Sections 3734.02 (E) and (F) and 3734.05
OAC Rule 3745-50-58(G)

(a) The Permittee is authorized to continue with corrective action activities in
accordance with the terms and conditions of this Ohio hazardous waste
permit (hereinafter “permit”), ORC Chapter 3734, all applicable Ohio
hazardous waste rules, all applicable regulations promulgated under the
Resource Conservation and Recovery Act (RCRA), as amended, and the
permit application. The permit application, as submitted to Ohio EPA on
January 19, 2012 and last updated on March 12, 2012, is hereby
incorporated into this permit. In the instance of inconsistent language or
discrepancies between the above, the language of the more stringent
provision shall govern.

(b) Any management of hazardous waste not authorized by this permit is
prohibited, unless otherwise expressly authorized or specifically exempted by
law. Issuance of this permit does not convey property rights of any sort or
any exclusive privilege; nor does it authorize any injury to persons or
property, or invasion of other private rights. Compliance with the terms and
conditions of this permit does not obviate Permittee’s obligation to comply
with other applicable provisions of law governing protection of public health
or the environment including but not limited to the Community Right to Know
law under ORC Chapter 3750.

A.2 Permit Actions
OAC Rule 3745-50-58(F)

This permit may be modified or revoked as specified by Ohio law. The filing of a
request by the Permittee for a permit modification, or the notification of planned
changes or anticipated noncompliance on the part of the Permittee, does not stay
any permit term or condition.
A.3 Permit Effective/Expiration Date
OAC Rule 3745-50-54

The effective date of this permit is the date the permit is entered into the Director's Journal. The permit expiration date is ten years after the date of journalization of this permit.

A.4 Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

A.5 Duty to Comply
OAC Rule 3745-50-58(A)

The Permittee must comply with all applicable provisions of ORC Chapter 3734, all applicable Ohio hazardous waste rules, and all terms and conditions of this permit, except to the extent and for the duration such noncompliance is authorized by the laws of the State of Ohio. Any permit noncompliance, other than noncompliance authorized by the laws of the State of Ohio, constitutes a violation of ORC Chapter 3734 and is grounds for enforcement action, revocation, modification, denial of a permit renewal application or other appropriate action.

A.6 Duty to Reapply and Permit Expiration
OAC Rules 3745-50-40(D), 3745-50-58(B), 3745-50-56 and ORC Section 3734.05(H)

(a) If the Permittee wishes to continue an activity allowed by this permit after the expiration date of this permit, the Permittee must submit a completed permit application for a hazardous waste facility installation and operation permit renewal and any necessary accompanying general plans, detailed plans, specifications, and such information as the Director may require, to the Director no later than one hundred eighty (180) days prior to the expiration date of this permit, unless a later submittal date has been authorized by the Director upon a showing of good cause.

(b) The Permittee may continue to operate in accordance with the terms and conditions of the expired permit until a renewal permit is issued or denied if:
(i) the Permittee has submitted a timely and complete permit application for a renewal permit under OAC Rule 3745-50-40; and

(ii) through no fault of the Permittee, a new permit has not been issued pursuant to OAC Rule 3745-50-40 on or before the expiration date of this permit.

(c) The Corrective Action obligations contained in this permit will continue regardless of whether the facility continues to operate or ceases operation and closes. The Permittee is obligated to complete facility-wide Corrective Action under the conditions of this permit regardless of the operational status of the facility. The Permittee must submit an application for permit renewal at least 180 days before the expiration date of this permit pursuant to OAC Rule 3745-50-40(D) unless a) the permit has been modified to terminate the Corrective Action schedule of compliance and the Permittee has been released from the requirements for financial assurance for Corrective Action; or b) a later submittal date has been authorized by the Director.

A.7 Need to Halt or Reduce Activity Not a Defense
OAC Rule 3745-50-58(C)

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce a permitted activity in order to maintain compliance with the conditions of this permit.

A.8 Duty to Mitigate
OAC Rule 3745-50-58(D)

The Permittee must take all reasonable steps to minimize releases to the environment and must carry out such measures as are reasonable to prevent significant adverse impact on human health or the environment resulting from noncompliance with this permit.

A.9 Proper Operation and Maintenance
OAC Rule 3745-50-58(E)

The Permittee must at all times properly operate and maintain the facility (and related appurtenances) to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes effective management practices, adequate funding, adequate operator staffing and training, and where appropriate, adequate laboratory and process controls, including appropriate quality
assurance/quality control procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the terms and conditions of this permit.

A.10 Duty to Provide Information
OAC Rule 3745-50-58(H)

The Permittee must furnish to the Director, within a reasonable time, any relevant information which the Director may request to determine whether cause exists for modifying or revoking, or to determine compliance with, this permit. The Permittee must also furnish to the Director, upon request, copies of records required to be kept by this permit.

A.11 Inspection and Entry
OAC Rules 3745-50-58(I) and 3745-50-30, and ORC Section 3734.07

(a) The Permittee must allow the Director, or an authorized representative, upon stating the purpose and necessity of the inspection and upon proper identification, to:

(i) enter at reasonable times upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the terms and conditions of this permit;

(ii) have access to and copy, at reasonable times, any records required to be kept under the terms and conditions of this permit;

(iii) inspect and photograph at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the terms and conditions of this permit; and

(iv) sample, document, or monitor, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by ORC Chapter 3734 and the rules adopted thereunder, any substances or parameter at any location.

(b) Any record, report or other information obtained under the hazardous waste rules or Chapter 3734 of the Revised Code shall not be available to the public upon the Permittee's satisfactory showing to Ohio EPA that all or part of the information would divulge methods or processes entitled to protection
as trade secrets pursuant to Ohio Trade Secret Law and OAC Rule 3745-50-30.

A.12 Monitoring and Records
OAC Rule 3745-50-58(J)

(a) Any sample and measurement taken for the purpose of monitoring must be representative of the monitored activity. Further, a sample must be a representative sample; as such term is defined and used in the Ohio hazardous waste rules. The method used to obtain a representative sample of the waste to be analyzed must be the appropriate method from Appendix I of OAC Rule 3745-51-20, Laboratory Methods. Laboratory methods must be those specified in Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods, EPA Publication SW-846, Third Edition (November 1986), as amended by Updates I (dated July 1992), II (dated September 1994), IIA (dated August 1993), IIB (dated January 1995), III (dated December 1996) and IIIA (dated April 1998), and additional supplements or editions thereof; Standard Methods for the Examination of Water and Wastewater: Twentieth Edition, 1999; or an equivalent method as specified in the approved waste analysis plan, or as this term is defined and used in the Ohio hazardous waste rules.

(b) Records of monitoring information must specify the:

(i) date(s), exact place(s), and time(s) of sampling or measurements;

(ii) individual(s) who performed the sampling or measurements;

(iii) date(s) analyses were performed;

(iv) individual(s) who performed the analyses;

(v) analytical technique(s) or method(s) used; and

(vi) results of such analyses.

A.13 Signatory Requirement and Certification of Records
OAC Rules 3745-50-58(K) and 3745-50-42

All applications, reports or information must be properly signed and certified in accordance with OAC Rule 3745-50-58(K).
A.14 Retention of Records and Information Repository
OAC Rules 3745-50-40(G), 3745-50-58(J), 3745-50-58(M) and 3745-50-58(N)

(a) The Permittee must retain records of all monitoring information, including all
calibration and maintenance records and all original strip chart recordings for
continuous monitoring instrumentation, copies of all reports and records
required by this permit, the certification required by OAC Rule 3745-54-
73(B)(9), and records of all data used to complete the application for this
permit, for a period of at least three (3) years from the date of the sample,
measurement, report, certification, or application.

(b) The record retention period may be extended by request of the Director at
any time and is automatically extended during the course of any unresolved
enforcement action regarding the facility.

(c) The Permittee must maintain, in accordance with the Ohio hazardous waste
rules, records of all data used to complete the permit application and any
amendments, supplements or modifications of such application. The
Permittee must retain a complete copy of the current application for the
effective life of the permit as indicated in Permit Condition A.3.

(d) The Permittee must maintain records from all ground water monitoring wells
and associated ground water surface elevations for the active life of the
facility, and for disposal facilities for the post-closure care period as well.

(e) reserved.

(f) Corrective Action records must be maintained at least three (3) years after all
Corrective Action activities have been completed.

A.15 Planned Changes
OAC Rules 3745-50-51 and 3745-50-58(L)(1)

The Permittee must give notice to the Director as soon as possible of any planned
physical alterations or additions to the facility. All such changes must be made in
accordance with OAC Rule 3745-50-51.
A.16 Waste Shipments
OAC Rule 3745-53-11, ORC Section 3734.15(C)

The Permittee must only use properly registered transporters of hazardous waste to remove hazardous waste from the facility, in accordance with all applicable laws and rules.

A.17 Anticipated Noncompliance
OAC Rule 3745-50-58(L)(2)

The Permittee must give advance notice to the Director of any planned changes in the permitted facility or operations which may result in noncompliance with the terms and conditions of this permit. Such notification does not waive the Permittee's duty to comply with this permit pursuant to Permit Condition A.5.

A.18 Transfer of Permits
OAC Rules 3745-50-52, 3745-50-58(L)(3) and 3745-54-12

(a) The permit may be transferred to a new owner or operator only if such transfer is conducted in accordance with ORC Chapter 3734 and the rules adopted thereunder. This permit may be transferred by the Permittee to a new owner or operator only if the permit has been modified under OAC Rule 3745-50-51. Before transferring ownership or operation of the facility, the Permittee must notify the new owner or operator in writing of the requirements of ORC Chapter 3734 and the rules adopted thereunder (including all applicable Corrective Action requirements).

(b) The Permittee's failure to notify the new owner or operator of the requirements of the applicable Ohio law or hazardous waste rules does not relieve the new owner or operator of its obligation to comply with all applicable requirements.

A.19 Compliance Reports
OAC Rules 3745-50-58(L)(5) and 3745-50-50

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule (developed in accordance with OAC Rule 3745-50-50) of this permit must be submitted to the Director no later than fourteen (14) days following each scheduled date.
A.20 **Immediate Reporting of Noncompliance**  
OAC Rule 3745-50-58(L)(6)

(a) The Permittee must report orally to Ohio EPA's Division of Emergency and Remedial Response within twenty-four (24) hours from the time the Permittee becomes aware of any noncompliance with this permit, ORC Chapter 3734 or the rules adopted thereunder, which may endanger human health or the environment, including:

(i) information concerning the release of any hazardous waste that may cause an endangerment to public drinking water supplies; and

(ii) any information of a release or discharge of hazardous waste or a fire or explosion from the hazardous waste facility, which could threaten the environment or human health outside the facility.

(b) The report must consist of the following information (if such information is available at the time of the oral report):

(i) name, address, and telephone number of the owner or operator;

(ii) name, address, and telephone number of the facility;

(iii) date, time, and type of incident;

(iv) name and quantity of material(s) involved;

(v) the extent of injuries, if any;

(vi) an assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and

(vii) estimated quantity and disposition of recovered material that resulted from the incident.

A.21 **Follow-Up Written Report of Noncompliance**  
OAC Rule 3745-50-58(L)(6)(c)

(a) A written report must also be provided to Ohio EPA's Division of Environmental Response and Revitalization and the Division of Materials and Waste Management, Northeast District Office within five (5) days of the time
the Permittee becomes aware of the circumstances reported in Permit Condition A.20.

(b) The written report must address the items in Permit Condition A.20 and must contain a description of such noncompliance and its cause; the period(s) of noncompliance (including exact dates and times); whether the noncompliance has been corrected; and, if not, the anticipated time it is expected to continue; and steps taken or planned to minimize the impact on human health and the environment and to reduce, eliminate, and prevent recurrence of the noncompliance.

(c) The Permittee need not comply with the five (5) day written report requirement if the Director, upon good cause shown by the Permittee, waives that requirement and the Permittee submits a written report within fifteen (15) days of the time the Permittee becomes aware of the circumstances.

A.22 Other Noncompliance
OAC Rules 3745-50-58(L)(10) and 3745-50-58(L)(4)

The Permittee must report to the Director all other instances of noncompliance not provided for in Permit Conditions A.19 and A.20. These reports must be submitted within thirty (30) days of the time at which the Permittee is aware of such noncompliance. Such reports must contain all information set forth within Permit Condition A.20.

A.23 Reserved

A.24 Other Information
OAC Rule 3745-50-58(L)(11)

If at any time the Permittee becomes aware that it failed to submit any relevant facts, or submitted incorrect information to the Director, the Permittee must promptly submit such facts, information or corrected information to the Director.

A.25 Confidential Information
OAC Rule 3745-50-30

In accordance with ORC Chapter 3734 and the rules adopted thereunder, the Permittee may request confidentiality for any information required to be submitted by the terms and conditions of this permit, or any information obtained by the
Director, or an authorized representative, pursuant to the authority provided under Permit Condition A.11.

A.26 Reserved

A.27 Reserved

A.28 Information to be Maintained at the Facility
OAC Rule 3745-54-74

(a) Unless otherwise specified by the hazardous waste rules, the Permittee must maintain at the facility, until corrective action activities are completed the following documents (including amendments, revisions and modifications):

(i) reserved;

(ii) reserved;

(iii) reserved;

(iv) reserved;

(v) reserved;

(vi) reserved;

(vii) inspection schedules, developed in accordance with OAC Rules 3745-54-15, and the terms and conditions of this permit;

(viii) reserved;

(ix) reserved; and
(x) all other documents required by Module A, Permit Condition A.12, Module E, and any other Permit Conditions.

(b) The Permittee must maintain copies of all inspection logs at the facility for a period not less than three (3) years from the date of inspection.

A.29 Reserved
MODULE B - GENERAL FACILITY CONDITIONS

B. GENERAL FACILITY CONDITIONS

B.1 Design and Operation of Facility
OAC Rule 3745-54-31

(a) The Permittee must design, construct, maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, ground water or surface waters which could threaten human health or the environment.

(b) The Permittee must not accept hazardous waste from any off-site sources.

B.2 Reserved

B.3 Reserved

B.4 Security
OAC Rule 3745-54-14

The Permittee must comply with the security provisions of OAC Rule 3745-54-14(B)(2), and (C) and Section F of the permit application.

B.5 General Inspection Requirements
OAC Rules 3745-54-15 and 3745-54-73

The Permittee must inspect the facility in accordance with the inspection schedule in Section F of the permit application. The Permittee must remedy any deterioration or malfunction discovered by an inspection, as required by OAC Rule 3745-54-15(C). Records of inspection must be kept for a minimum of three years from the date of inspection.

B.6 Reserved

B.7 Reserved

B.8 Reserved
B.9  Reserved

B.10  Reserved

B.11  Reserved

B.12  Reserved

B.13  Reserved

B.14  Reserved

B.15  Reserved

B.16  Reserved

B.17  Reserved

B.18  Reserved

B.19  Reserved

B.20  Reserved

B.21  Availability, Retention and Disposition of Records
OAC Rule 3745-54-74

All records shall be furnished by the Permittee upon request to, and made available at all reasonable times for inspection by, Ohio EPA, in accordance with OAC Rule 3745-54-74.

B.22  Reserved

B.23  Reserved
B.24  **Manifest System**  
OAC Rules 3745-54-70, 3745-54-71, 3745-54-72 and 3745-54-76  

(a) In managing waste at the facility the Permittee must comply with OAC Chapter 3745-52 and OAC Rules 3745-54-71, 3745-54-72 and 3745-54-76 with regard to the manifest system.

(b) **Reserved**

(c) **Reserved**

B.25  **Reserved**

B.26  **Reserved**

B.27  **Reserved**

B.28  **Reserved**

B.29  **Reserved**

B.30  **Reserved**

B.31  **Reserved**

B.32  **Reserved**

B.33  **Reserved**

B.34  **Reserved**

B.35  **Reserved**

B.36  **Reserved**

B.37  **Reserved**
B.38 Reserved

B.39 Reserved

B.40 General Requirements for Land Disposal Restrictions
OAC Chapter 3745-270

The Permittee must comply with all applicable regulations regarding land disposal prohibitions and restrictions as required by OAC Chapter 3745-270.
MODULE C – RESERVED
MODULE E - CORRECTIVE ACTION REQUIREMENTS

Corrective Action Summary

In early 1987, the RMI Titanium Company Sodium Plant (RMI Sodium), located on State Road in Ashtabula Township, Ashtabula County, Ohio, was granted a Resource Conservation and Recovery Act (RCRA) permit by the USEPA, authorizing them to treat and store hazardous wastes at the facility. This permit was subsequently transferred to the State of Ohio's authority.

The facility ceased primary manufacturing operations in 1992. The facility continued thermal destruction of sodium under its RCRA permit until 1998, when that unit was closed. All manufacturing and processing equipment have been decommissioned, and most structures were demolished (with the exception of the office buildings and a few smaller ancillary buildings) by 2000. The property was subdivided into four parcels and three of them were sold. The three transferred parcels are not subject to this permit. The remaining parcel, still owned by RMI, is the location of the former landfill known as Area A.

RMI Sodium's RCRA permit imposed RCRA Corrective Action obligations on the facility, including a requirement to investigate areas where wastes were managed, for potential releases of hazardous constituents. The permit also required developing and implementing a remedy for the facility, and anywhere contamination may have migrated. RMI Titanium Sodium developed and implemented a RCRA Facility Investigation (RFI), which assessed, investigated and addressed Waste Management Units to determine where contamination existed at the site and at what concentrations.

Initially, eleven Waste Management Units (WMUs) were identified. Two of the WMUs were still active at the time, but have since been certified as closed. The unit known as the Abandoned Pond East of the Closed Landfill was later determined to not be a WMU, but a manufacturing process unit which never contained waste materials or hazardous constituents. The WMU known as the Sulfuric Acid Neutralization System was a tank system permitted under the National Pollutant Discharge Elimination System (NPDES). There were no known releases from these tanks, and they were decommissioned and removed when the facility closed in 1992. The remaining seven units were investigated under the RFI and supplemental investigations. The investigations found contaminated soil and ground water, so that further evaluation and remedial action were required.

Although a Corrective Measures Study (CMS) to evaluate remedial alternatives was undertaken and approved in May 1995, in the late 1990s RMI Sodium was involved as a Potentially Responsible Party in the Fields Brook Superfund action. As part of the
settlement of that Superfund action, an engineered landfill was built on the RMI Sodium site. This provided new remedial options, and RMI Sodium submitted, and had approved, a revised CMS. Three WMUs were remediated by excavation and disposal in the new unit.

Two of the remaining units were evaluated by risk assessment, and found to meet unrestricted future use standards. One WMU was certified closed under Ohio's Surface Water regulations.

The remaining unit, a pre-RCRA landfill known as Area A, is the only Waste Management Unit remaining on this permitted facility. The landfill received industrial wastes generated by RMI sodium from 1950 until it closed in 1981. At that time it was capped with two feet of clay, and grasses were planted to form a cover.

Area A requires further action to ensure future protection of human health and the environment. Ohio EPA proposes continued implementation of an existing Operation and Maintenance Plan and an existing Ground Water Sampling and Analysis Plan to maintain the integrity and effectiveness of the landfill cover, and ensure the contaminant plume remains stable. Security measures currently in place at the facility will be maintained. Financial assurance for the on-going monitoring and maintenance will be established.

Finally, use of portions of the facility will be restricted through an enforceable, written agreement with Ohio EPA known as an Environmental Covenant. This restriction will run with the land and will be binding upon a future property owner should the property be sold. The Environmental Covenant will include a legal description of the subject property, and describe acceptable and unacceptable land and ground water uses in the surveyed area. Ohio EPA will monitor the property owner's adherence to the Environmental Covenant.

Further details of the facility's history and setting may be found in the Statement of Basis.

E.1 Corrective Action at the Facility
OAC Rules 3745-50-10 & 3745-54-101

In accordance with OAC Rule 3745-50-10 "waste management unit" means any discernible unit at which solid waste, hazardous waste, infectious waste (as those terms are defined in ORC Chapter 3734), construction and demolition debris (as defined in ORC Chapter 3714) industrial waste, or other waste (as those terms are defined in ORC Chapter 6111), has been placed at any time, irrespective of whether the unit was intended for the management of waste or hazardous waste. Such units include any area at a facility at which wastes have been routinely and systematically released. For the purpose of Corrective Action, facility is defined as all contiguous property under the control of the owner or operator seeking a permit under Subtitle
C of RCRA. The terms Interim Measure (IM), RCRA Facility Investigation (RFI), Corrective Measures Study (CMS) and Corrective Measure Implementation (CMI) are defined in U.S. EPA’s Corrective Action Plan (CAP) (OSWER Directive 9902.3-2A, May 1994).

The Permittee must institute Corrective Action as necessary to protect human health and the environment for all releases of hazardous wastes or hazardous constituents from any waste management units (WMUs) at the Facility, regardless of the time at which waste was placed in such units.

E.2 Corrective Action Beyond the Facility Boundary
OAC Rule 3745-54-101

The Permittee must implement Corrective Action beyond the Facility property boundary, where necessary to protect human health and the environment, unless the Permittee demonstrates to the satisfaction of Ohio EPA that, despite the Permittee’s best efforts, the Permittee was unable to obtain the necessary permission to undertake such actions. The Permittee is not relieved of all responsibility to clean up a release that has migrated beyond the Facility boundary where off-site access is denied. On-site measures to address such releases will be addressed under the RFI, CMS, and CMI phases, as determined to be necessary on a case-by-case basis.

E.3 Identification of WMUs
OAC Rules 3745-50-44(D) and 3745-54-101

The landfill known as Area A is the only WMU regulated under this permit. Materials were first disposed in the Area A landfill in the 1950s, and included cell bath waste, anode butts, solid waste, salt dissolver sludge, and miscellaneous construction/demolition debris. Area A accepted waste until November 30, 1980. The landfill was closed according to a Closure Plan submitted to Ohio EPA’s Office of Land Pollution Control on August 20, 1981. As part of the landfill closure, a re-compactaced clay cover of 1.5 to 2 feet was installed over the graded fill, and seeded with grass. A new layer of topsoil was placed and seeded in 1991. Ground water monitoring wells around Area A were sampled on July 23, 2008, October 30, 2008, January 6, 2009, and October 18, 2010. A summary of the results can be found in the Statement of Basis.

The location of the WMU, and an aerial photograph depicting topography and well locations, can be found in the Statement of Basis.
E.4   Reserved

E.5   RCRA Facility Investigation (RFI)
      OAC Rule 3745-54-101

The Permittee must conduct an RFI to thoroughly evaluate the nature and extent of
the release of hazardous wastes and hazardous constituents from all applicable
WMUs identified in Permit Condition E.10. The major tasks and required submittal
dates are shown below. The scope of work for each of the tasks is found in U.S.
EPA's CAP.

(a)   RFI Workplan

The Permittee must submit a written RFI Workplan to Ohio EPA, in case of a
newly discovered waste management unit or newly discovered releases, on
a time frame established in written notification by Ohio EPA.

(i)   Within 45 days of receipt of any Ohio EPA comments on the RFI
      Workplan, the Permittee must submit either an amended or new RFI
      Workplan that incorporates Ohio EPA's comments.

(ii)  Ohio EPA will approve or modify and approve, in writing, the amended
      or new RFI Workplan. The RFI Workplan, as approved or as modified
      and approved, shall be incorporated into this permit and become an
      enforceable condition of this permit. Subsequent changes to the
      approved RFI Workplan must be authorized by Ohio EPA.

(b)   RFI Implementation

The Permittee must implement the RFI Workplan according to the terms and
schedule in the approved RFI Workplan.

(c)   RFI Final Report

Within 60 days after the completion of the RFI, the Permittee must submit an
RFI Final Report to Ohio EPA. The RFI Final Report must describe the
procedures, methods, and results of the RFI. The Final Report must contain
adequate information to support further decisions concerning Corrective
Action at the Facility.
(i) Within 45 days of receipt of any Ohio EPA comments on the RFI Final Report, the Permittee must submit either an amended or new RFI Final Report that incorporates Ohio EPA's comments.

(ii) Ohio EPA will approve or modify and approve, in writing, the amended or new RFI Final Report. The RFI Final Report, as approved or as modified and approved, shall be incorporated into this permit and become an enforceable condition of this permit. Subsequent changes to the approved RFI Final Report must be authorized by Ohio EPA.

E.6 Interim Measure (IM)

Based on the RFI Final Report or other information documenting a release of hazardous waste or constituents to the environment, Ohio EPA may require (or the Permittee may propose) the development and implementation of an IM (this may include an IM Workplan) at any time during the life of the permit to mitigate or eliminate a threat to human health or the environment. The Permittee must implement the IM upon a time frame established in written notification by Ohio EPA.

E.7 Determination of No Further Action

(a) Permit Modification

Based on the results of the completed RFI and other relevant information, the Permittee may submit an application to Ohio EPA for a permit modification under OAC Rule 3745-50-51 to terminate the Corrective Action tasks of the Schedule of Compliance. Other tasks identified in the Schedule of Compliance shall remain in effect. This permit modification application must conclusively demonstrate that there are no releases of hazardous waste or constituents from WMUs at the Facility that pose an unacceptable risk to human health and the environment.

If, based upon review of the Permittee's request for a permit modification, the results of the completed RFI, and other information, Ohio EPA determines that releases or suspected releases which were investigated either are nonexistent or do not pose an unacceptable risk to human health and the environment, Ohio EPA will approve the requested modification. Decisions regarding the completion of RCRA Corrective Action and no further action may be made for the entire Facility, for a portion of the Facility, or for a specific unit or release.
(b) **Periodic Monitoring**

A determination of no further action shall not preclude Ohio EPA from requiring continued or periodic monitoring of air, soil, ground water, or surface water, if necessary to protect human health and the environment, when site-specific circumstances indicate that a potential or an actual release of hazardous waste or constituents exists.

(c) **Further Investigations**

A determination of no further action shall not preclude Ohio EPA from requiring further investigations, studies, or remediation at a later date, if new information or subsequent analysis indicates that a release or potential release from a WMU at the Facility may pose an unacceptable risk to human health or the environment. In such a case, Ohio EPA shall initiate a modification to the terms of the permit to rescind the determination made in accordance with Permit Condition E.7(a). Additionally, in the event Ohio EPA determines that there is insufficient information on which to base a determination, the Permittee, upon notification, is required to develop a Work Plan and upon Ohio EPA approval of that Work Plan, perform additional investigations as needed.

E.8 **Corrective Measures Study (CMS)**

If Ohio EPA determines, based on the results of the RFI and any other relevant information, that corrective measures are necessary, Ohio EPA will notify the Permittee in writing that the Permittee must conduct a CMS either as described below or as described in Ohio EPA's notification to the Permittee. The purpose of the CMS will be to develop and evaluate the corrective action alternative(s) and to outline one or more alternative corrective measure(s) that will satisfy the performance objectives specified in Permit Condition E.9.

(a) **CMS Workplan**

The Permittee must submit a written CMS Workplan to Ohio EPA within 60 days from the notification by Ohio EPA of the requirement to conduct a CMS.

(i) Within 45 days of receipt of any Ohio EPA comments, the Permittee must submit either an amended or new CMS Workplan that incorporates Ohio EPA's comments.
(ii) Ohio EPA will approve or modify and approve, in writing, the amended or new CMS Workplan. The CMS Workplan, as approved or as modified and approved, must be incorporated into this permit and become an enforceable condition of this permit. Subsequent changes to the approved CMS Workplan must be authorized by Ohio EPA.

(b) **CMS Workplan Implementation**

The Permittee must implement the CMS Workplan according to the terms and schedule in the approved CMS Workplan.

(c) **CMS Final Report**

Within 60 days after the completion of the CMS, the Permittee must submit a CMS Final Report to Ohio EPA. The CMS Final Report must summarize the results of the investigations for each remedy studied and must include an evaluation of each remedial alternative.

(i) Within 45 days of receipt of any Ohio EPA comments, the Permittee must submit either an amended or new CMS Final Report that incorporates Ohio EPA’s comments.

(ii) Ohio EPA will approve or modify and approve, in writing, the amended or new CMS Final Report. The CMS Final Report, as approved or as modified and approved, must be incorporated into this permit and become an enforceable condition of this permit. Subsequent changes to the approved CMS Final Report must be authorized by Ohio EPA.

E.9 **Corrective Measures Implementation (CMI)**

Based on the results of the CMS, the Permittee must implement one or more of the Corrective Measures authorized by Ohio EPA. Ohio EPA will authorize one or more of the Corrective Measures in the CMS, and will notify the Permittee in writing of the decision. The Corrective Measure selected for implementation must: (1) be protective of human health and the environment; (2) attain media cleanup standards; (3) control the source(s) of releases so as to reduce or eliminate further releases of hazardous waste(s) (including hazardous constituent[s]); and (4) comply with all applicable standards for management of wastes.

If two or more of the Corrective Measures studied meet the threshold criteria set out above, Ohio EPA will authorize the Corrective Measures Implementation by
considering remedy selection factors including: (1) long-term reliability and effectiveness; (2) the degree to which the Corrective Measure will reduce the toxicity, mobility or volume of contamination; (3) the Corrective Measure's short-term effectiveness; (4) the Corrective Measure's implementability; and (5) the relative cost associated with the alternative. With respect to WMU Area A, Ohio EPA considered, as applicable, remedy selection factors noted above. As such, the Permittee must implement the following corrective measures for this WMU:

(a) Within 30 days of issuance of this permit renewal/modification, the Permittee shall initiate entering into an Environmental Covenant with Ohio EPA under Ohio law (Ohio Revised Code Sections 5301.80 through 5301.92) to restrict property use. This restriction will run with the land and will be binding upon all future property owners should the property be sold. The Environmental Covenant will include a legal description of the subject property, and identify the contaminated area.

The Environmental Covenant will restrict the property from residential activities but allow it to be used for industrial activities. The term "residential activities" shall include, but not be limited to, the following:

(1) Single and multi-family dwelling and rental units;
(2) Day care centers and preschools;
(3) Hotels and motels;
(4) Educational (except as part of industrial activities within the Property) and religious facilities;
(5) Outdoor parks and playgrounds;
(6) Correctional facilities;
(7) Hospitals and other extended care medical facilities;
(8) Transient or other residential facilities; and
(9) Production of food-chain products by agricultural means for animal or human consumption.

The term "industrial activities" shall include, but is not limited to, facilities which supply goods or services to the public, and facilities engaged in manufacturing, processing operations and office and warehouse use, including but not limited to production, storage and sales of durable goods and parking/driveway use.

The Environmental Covenant will prohibit excavation on the site without prior approval from Ohio EPA. In addition, the Environmental Covenant will restrict the extraction of ground water for any purpose other than monitoring,
migration control, treatment or remediation in accordance with the permit conditions.

(b) The Permittee shall prepare and submit an Inspection and Maintenance (IMP) Plan for the landfill cover system (cap) and security fence within 60 days following the effective date of this permit renewal/modification. The plan must include, but is not limited to, an inspection schedule, an inspection checklist detailing items to be evaluated, criteria for initiating repair work, a schedule for mowing and vegetation control, and methods for repairing the cover system if damaged.

(i) Within 45 days of receipt of any Ohio EPA comments on the IMP, the Permittee must submit either an amended or new plan that incorporates Ohio EPA's comments.

(ii) Ohio EPA will approve or modify and approve, in writing, the amended IMP or new IMP. The IMP, as approved or as modified and approved, shall be incorporated into this permit and become an enforceable condition of this permit. Subsequent changes to the approved IMP plan must be authorized by Ohio EPA.

(iii) The Permittee shall implement the approved IMP.

(c) The Permittee shall prepare and submit an Amended Ground Water Monitoring Plan (GWMP) within 60 days following the effective date of this permit renewal/modification. The GWMP shall be sufficient to provide adequate surveillance of the ground water underlying Area A, to a level of detail that field and laboratory personnel, initially unfamiliar with the site, may use to successfully implement the monitoring.

(i) Within 45 days of receipt of any Ohio EPA comments on the GWMP, the Permittee must submit either an amended or new plan that incorporates Ohio EPA's comments.

(ii) Ohio EPA will approve or modify and approve, in writing, the amended GWMP or new GWMP. The GWMP, as approved or as modified and approved, shall be incorporated into this permit and become an enforceable condition of this permit. Subsequent changes to the approved GWMP plan must be authorized by Ohio EPA.

(iii) The Permittee shall implement the approved GWMP.
(d) The Permittee shall prepare and submit a site-specific Health and Safety Plan (HASP) for the protection of personnel implementing the remedies within 60 days following the effective date of this permit renewal/modification. The HASP shall be in accordance with all applicable and relevant laws and regulations. Ohio EPA will review, but not approve the HASP.

(e) Reporting and Record Keeping: The Permittee shall submit documentation of the activities called for in the IMP and GWMP to Ohio EPA on or before the date one year following the effective date of this permit renewal/modification, and annually thereafter. The documentation must include, but is not limited to, inspection reports, reports detailing any maintenance activities (e.g. mowing) or repairs, ground water monitoring field notes and data, and ground water analytical results sufficient and complete enough to perform a Tier 1 data validation. These documents, as well as the IMP, GWMP, and HASP, shall be retained by RMI Titanium Corporation in their offices in such a manner that they can be easily produced upon request from Ohio EPA.

(f) Financial Assurance
OAC Rule 3745-54-101

Within 45 days after receiving approval of the IMP or GWMP, whichever comes last, the Permittee must provide financial assurance in the amount necessary to implement the corrective measure(s) as required by OAC Rule 3745-54-101 (B) and (C), for the duration of this permit.

(g) Permit Modification
OAC Rule 3745-54-101

For any potential new WMUs identified through permit condition E.10, and which require additional corrective measures, Ohio EPA will initiate a permit modification, as provided by OAC Rule 3745-50-51 to require implementation of the corrective measure(s) authorized.

The Permittee must not implement the corrective measure until the permit is modified pursuant to OAC Rule 3745-50-51.
E.10 Newly Identified WMUs or Releases
OAC Rule 3745-54-101

(a) General Information

The Permittee must submit to Ohio EPA, within 30 days of discovery, the following information regarding any new WMU identified at the Facility by Ohio EPA or the Permittee:

(i) The location of the unit on the site topographic map;

(ii) Designation of the type of unit;

(iii) General dimensions and structural description (supply any available drawings);

(iv) When the unit was operated; and

(v) Specification of all waste(s) that have been managed at the unit.

(b) Release Information

The Permittee must submit to Ohio EPA, within 30 days of discovery, all available information pertaining to any release of hazardous waste(s) or hazardous constituent(s) from any new or existing WMU.

E.11 Corrective Action for Newly Identified WMUs and Releases
OAC Rule 3745-54-101

If Ohio EPA determines that a RFI is required for newly identified WMUs, the Permittee must submit a written RFI Workplan to Ohio EPA upon a time frame established in written notification by Ohio EPA in accordance with Permit Condition E.5. This determination will be made based on the information submitted in accordance with Permit Condition E.10. Further investigations or corrective measures will be established by Ohio EPA.

Permittee must make such submittal in accordance with time frames established by Ohio EPA.
E.12 Completion of Corrective Action
OAC Rule 3745-54-101

After completing Corrective Action as necessary to protect human health and the environment for all releases of hazardous wastes or hazardous constituents from any WMUs at the Facility, the Permittee shall submit a Corrective Measures Completion of Work (CMCW) Report. The CMCW Report shall document that Corrective Action construction is complete, cleanup objectives and standards have been met, and any releases of hazardous waste or constituents no longer pose an unacceptable risk to human health and the environment. The CMCW Report may be submitted for any part of the Facility for which corrective measures are complete, or for the entire Facility. The CMCW Report must be submitted as a request for permit modification pursuant to OAC Rule 3745-50-51.

E.13 Documents Requiring Professional Engineer Stamp
ORC Section 4733.01

Preparation of the following Corrective Action documents constitutes the "practice of engineering" as defined by ORC Section 4733.01:

Final Interim Measures Report
Corrective Measures Final Design
Corrective Measures Construction Completion Report
Corrective Measures Attainment of Groundwater Performance Standards Report
Corrective Measures Completion of Work Report

As such, the Permittee must ensure that these documents, as submitted to Ohio EPA, are stamped by a Professional Engineer licensed to practice in the State of Ohio.

END OF CONDITIONS