



Michigan Department of Environmental Quality
Waste and Hazardous Materials Division

SOLID WASTE DISPOSAL AREA OPERATING LICENSE

This license is issued under the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, MCL 324.11501 et seq., and authorizes the operation of this solid waste disposal area (Facility) in the state of Michigan. This license does not obviate the need to obtain other authorizations as may be required by state law.

FACILITY NAME: CMP Quinnesec LLC

LICENSEE/OPERATOR: CMP Quinnesec LLC

FACILITY OWNER: CMP Quinnesec LLC

PROPERTY OWNER: CMP Quinnesec LLC

FACILITY TYPE(S): Type III Low Hazard Industrial Landfill

FACILITY ID NUMBER: 474294

COUNTY: Dickinson

LICENSE NUMBER: 9141

ISSUE DATE: August 4, 2006

EXPIRATION DATE: August 4, 2011

FACILITY DESCRIPTION: The CMP Quinnesec LLC Landfill, a Type III Low Hazard Industrial Landfill, consists of 94 acres located in the N 1/2, NW 1/4, of Section 13, and the S 1/2, SW 1/4, of Section 12, T39N, R30W, Breitung Township, Dickinson County, Michigan, as identified in Attachment A and fully described in this license.

AREA AUTHORIZED FOR DISPOSAL OF SOLID WASTE: Phases 1-4, totaling 46 acres.

RESPONSIBLE PARTY: Mr. Michel Sussman
CMP Quinnesec LLC
W6582 US Highway 2
Norway, Michigan 49870
906-779-3201

FIRST OPERATING LICENSE: This License Number 9141 is the first operating license issued for this Facility to this licensee.

This license is subject to revocation by the Director of the Michigan Department of Environmental Quality if the Director finds that this Facility is not being constructed or operated in accordance with the approved plans, the conditions of a permit or license, Part 115, or the rules promulgated under Part 115. Failure to comply with the terms and provisions of this license may result in legal action leading to civil and/or criminal penalties pursuant to Part 115. This license shall be available through the licensee during its term and remains the property of the Director.

THIS LICENSE IS NOT TRANSFERABLE.

Steven R. Sliver, Chief, Storage Tank and Solid Waste Section
Waste and Hazardous Materials Division

Licensee: CMP Quinnesec LLC
Facility Name: CMP Quinnesec LLC
Operating License Number: 9141
Issue Date: August 4, 2006

The licensee shall comply with all terms of this license and the provisions of Part 115 and its administrative rules. This license includes the license application and any attachments to this license.

1. The licensee shall operate the Facility in a manner that will prevent violations of any state or federal law.
2. The following portions of the Facility are authorized to receive solid waste by this license:

ACTIVE PORTIONS NOT AT FINAL GRADE: The area(s) identified as Cells 1-4 were authorized to receive waste by the previous license. This area's total acreage is 46 acres.

3. The following portions of the Facility **WILL BE** authorized to receive solid waste by this license following approval by the Michigan Department of Environmental Quality (MDEQ) of construction certification: None.
4. The following portions of the Facility are **NOT** authorized to receive solid waste by this license:

UNCONSTRUCTED AREA(S) WITHOUT FINANCIAL ASSURANCE: The area(s) identified as Cell 5 are not constructed and are not included in the calculation of financial assurance as required by Section 11523 of Part 115. This area's total acreage is 10 acres.

5. The attached map (Attachment A) shows the Facility, the area permitted for construction, monitoring points, leachate storage units, site roads, other disposal areas, and related appurtenances.
6. Issuance of this license is conditioned on the accuracy of the information submitted by the Applicant in the Application for License to Operate a Solid Waste Disposal Area (Application) determined by the MDEQ on July 31, 2006, to be administratively complete and any subsequent amendments. Any material or intentional inaccuracies found in that information is grounds for the revocation or modification of this license, and may be grounds for enforcement action. The licensee shall inform the MDEQ's Waste and Hazardous Materials Division, Upper Peninsula District Supervisor, of any inaccuracies in the information in the Application upon discovery.
7. This license is issued based on the MDEQ's review of the Application, submitted by CMP Quinnesec LLC, for the CMP Quinnesec LLC Landfill, dated July 14, 2006. The Application consists of the following:
 - a. Application Form EQP 5507.
 - b. Application fee in the amount of \$2,500.00.
 - c. Certification of construction: N/A.
 - d. Waste Characterization: N/A.
 - e. Restrictive Covenant:

The December 20, 2004 restrictive covenant on 93.95 acres is on file at the Dickinson County Register of Deeds recorded on January 27, 2005, as Liber 563 pages 588-592. A copy is on file with the MDEQ.

Licensee: CMP Quinnesec LLC
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f. Perpetual Care Fund Agreement, established as a trust account, signed by Scott Kleinman, President, CMP Quinnesec LLC, on August 1, 2006, was executed by the MDEQ on August 4, 2006.

g. Financial Assurance.

i. Financial Assurance Required:

The amount of financial assurance required for this Facility was calculated based on the calculation worksheet form EQP 5507A entitled, "Form A Financial Assurance Required," and is \$920,000.00.

The Facility has provided financial assurance totaling \$920,000.00, based on the requirements of Section 11523 of Part 115, consisting of a combination of the Perpetual Care Fund established under Section 11525, bonds, and the financial capability of the Applicant as evidenced by a financial test. The financial assurance mechanisms used by the Facility are summarized below in items ii, iii, and iv, respectively.

ii. Financial Assurance Provided Via a Perpetual Care Fund:

- (1) The amount of the required financial assurance can be reduced pursuant to Section 11524 of Part 115, if the amount of money in the Perpetual Care Fund plus the amount of the reduced financial assurance equals the amount of financial assurance required in Section 11523 and is approved by the MDEQ.
- (2) The Perpetual Care Fund Agreement statement showed a balance of \$703,347.70 in the Facility's Perpetual Care Fund as of June 30, 2006. Of this amount, the MDEQ has granted the request to use \$703,347.70 toward the total amount of financial assurance required.

iii. Financial Assurance provided via bond:

The following financial assurance has been received from the Applicant to meet the amount of financial assurance required:

Irrevocable Letter of Credit	\$216,652.30
Total Amount Received:	\$216,652.30

iv. Financial Assurance provided via a financial test for a Type II landfill: N/A.

v. Financial Assurance Updates Required: N/A.

vi. Other Required Financial Assurance: N/A.

8. The following documents approved with Construction Permit Number(s) 0294 issued to Champion International Corporation on May 21, 1993, are incorporated in this license by reference:

- a. Operations Plan dated May 21, 1993.
- b. Engineering Plans, dated May 21, 1993.
- c. Engineering Report, dated May 21, 1993.
- d. Construction Quality Assurance Plan dated May 21, 1993.
- e. Hydrogeological Report, dated May 21, 1993.
- f. Hydrogeological Monitoring Plan dated May 21, 1993.

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9. The following additional documents, approved since the issuance of the construction permit(s) referenced in Item 8, are incorporated in this license by reference:
- a. Hydrogeological Monitoring Plan Phases 1-5 Landfill, Champion International Corporation, dated November 1995, approved on January 17, 1996, and revised on December 18, 1998, January 11, 1999, and March 16, 2001.
 - b. Construction Project Manual for Champion International Corporation (CQA Plan) dated February 1995 and approved May 12, 1995.
10. Consent Order/Judgment Number: N/A.
11. The licensee shall repair any portion of the certified liner or leachate collection system which is found to be deficient or damaged during the term of this license unless determined otherwise by the MDEQ.
12. The licensee shall have repairs to any portion of the certified liner or leachate collection system recertified by a registered professional engineer in accordance with R 299.4921 of Part 115 and approved by the MDEQ before receiving waste in that portion of the certified liner or leachate collection system. The licensee shall submit the recertification to the MDEQ's Waste and Hazardous Materials Division, Upper Peninsula District Supervisor, for review and approval.
13. The licensee shall conduct hydrogeological monitoring in accordance with the approved hydrogeological monitoring plan, dated November 1995, and revised on December 18, 1998, January 11, 1999, and March 16, 2001. The sampling analytical results shall be submitted to the MDEQ's Waste and Hazardous Materials Division, Upper Peninsula District Office.
14. Modifications to the approved hydrogeological monitoring plan referenced in Item 13 may be approved, in writing by the Waste and Hazardous Materials Division, Upper Peninsula District Supervisor. Proposed revisions must be submitted in a format specified by the MDEQ.
15. Leachate may be recirculated if a leachate recirculation plan has been approved, in writing, by the Waste and Hazardous Materials Division, Upper Peninsula District Supervisor.
16. Modifications to approved engineering plans that constitute an upgrading, as defined in R 299.4106a(l), may be approved, in writing, by the Waste and Hazardous Materials Division, Upper Peninsula District Supervisor.
17. Requests for alternate daily cover may be approved, in writing, by the Waste and Hazardous Materials Division, Upper Peninsula District Supervisor.
18. Leakage Control Criteria:
- This Type III Facility is a monitorable unit and, therefore, does not need to be in compliance with the leakage control criteria of R 299.4422.
19. **VARIANCES:** The licensee is granted the following variance(s) from Part 115 and/or its administrative rules: *or none*
None
20. **SPECIAL CONDITIONS:** N/A.
21. **TERM:** This license shall remain in effect until its expiration date, unless revoked or continued in effect, as provided by, the Administrative Procedures Act, 1969 PA 306, as amended, or unless superseded by the issuance of a subsequent license.

END OF LICENSE

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

INTEROFFICE COMMUNICATION

TO: CMP Quinnesec LLC (formerly "International Paper Company"), File

FROM: Steven R. Sliver, Chief, Storage Tank and Solid Waste Section,
Waste and Hazardous Materials Division 

DATE: August 4, 2006

SUBJECT: Decision Memo; CMP Quinnesec LLC; Waste Data System Number 474294

An application for an operating license was received in the Upper Peninsula District Office (District) on July 14, 2006, and was determined to be administratively complete on July 31, 2006. A decision by the Department of Environmental Quality (DEQ) on this application is required by October 28, 2006. The District has reviewed the application and determined that it is in compliance with the provisions of Part 115, Solid Waste Management of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Existing landfill operations at the site were determined to be in compliance with Part 115. Therefore, the District recommends issuance of this license.

This license is a result of the sale of International Paper Company, as an asset sale, to CMP Quinnesec LLC. The license will be a first license for this facility by this company.

The Waste and Hazardous Materials Division, Storage Tank and Solid Waste Section, has reviewed the application form, the District's recommendation, and any other pertinent facts, and a determination has been made to issue the license.

cc: Upper Peninsula

CMP Quinnesec LLC f/k/a International Paper Type III Landfill
Waste Data System Number 474294
FACT SHEET
July 28, 2006

I. FACILITY INFORMATION:

- a. Name of the applicant and operator of the facility: CMP Quinnesec, LLC (formerly "International Paper Company")
- b. Physical location of the facility: Highway US-2, Quinnesec, Michigan, N ½ of the NW ¼ of Section 13, and the S ½ of the SW ¼ of Section 12, T39N, R30W, Breitung Township, Dickinson County, Michigan.
- c. Total facility acreage: 94 acres, this includes 46 acres of active portions not at final grade, 10 acres of unconstructed area without financial assurance, and 38 acres of isolation and ancillary area.
- d. Type of wastes accepted by the facility: Low hazard industrial waste, i.e. paper mill waste.

II. DESIGN:

Four phases of construction have been completed for this facility. Phase I was constructed with a single 60-mil high-density polyethylene (HDPE) liner, overlain by a two-foot thick sand blanket containing a leachate collection system as described below.

Phases II, III, and IV were constructed with a double synthetic liner system consisting of a secondary 60-mil HDPE liner, overlain by a secondary collection system comprised of a geocomposite layer of geonet sandwiched between two layers of geotextile fabric. The primary liner is also a 60-mil HDPE liner. The primary leachate collection system consists of a two-foot layer of sand with six-inch diameter Schedule 80 polyvinyl chloride collection pipes. The lateral spacing is approximately 100 to 120 feet. The collection pipes are sloped at 0.5 percent toward the sumps. The cell floors slope at two percent toward the collection pipes. These design slopes were deviated from somewhat in Phase III; however, the collection system does maintain positive drainage despite the deviations.

Additional drainage laterals that are added by CMP Quinnesec LLC f/k/a International Paper during fill operations aid drainage in the active cells. That is, the operator places corrugated drain tile in the fill at regular intervals to promote leachate drainage toward the sumps. Each cell has leachate collection sumps for the primary and secondary collections systems.

Leachate from the landfill is pumped from the sumps to manholes, and then into a force main that carries the leachate to an on-site wastewater treatment plant for treatment and disposal.

None of the cells has reached final elevation; however, interim cover has been placed over Phases I and II.

III. HYDROGEOLOGY:

Unconsolidated aquifer thickness at the site ranges from 18 feet to more than 220 feet. In general, the soils represent outwash sandy deposits containing various amounts of gravel, silt, and clay. Isolated lenses of gravelly, silty, and clayey deposits were observed in the well logs. These strata did not extend to any significant degree in aerial extent. Bedrock has been categorized as an Igneous Metagabbro. The bedrock surface is irregular in this area and generally classified as a bedrock valley trending northeast/southwest, which concurs with groundwater flow directions beneath the site.

The bedrock at this site and in the vicinity most likely consists of metavolcanic and metasedimentary rocks of Michigamme Slate and Quinnesec Formations of middle Precambrian age. The Quinnesec Formation is primarily composed of metamorphosed basaltic flows, pyroclastics, and metarhyolite with areas of metasedimentary rocks. The Michigamme Slate Formation consists primarily of slate, but it also contains large amounts of greywacke, quartzite, and dolomite. The Niagara sill, a magnetite rich metagabbro intrusion cuts across the Quinnesec Formation and outcrops along the Menominee River bluffs south of the site. It should be noted that the area was highly foliated resulting in steeply dipping bedrock. Erosion of such geology has resulted in the highly variable bedrock surface elevations.

Groundwater flows in the unconsolidated sandy deposits within the bedrock valley in a southwesterly direction across the site at a rate of approximately 0.7 feet per day. Depth to groundwater is approximately 85 to 100 feet below ground.

IV. MONITORING:

The site is monitored by 15 groundwater monitoring wells. B13U and A14U are upgradient wells. A05D, B05D, A06D, A07D, A08D, A09D, A10D, A11D, A15D, A16D, A17D, A18D, and B18D are all downgradient water table wells. B05D and B07D are deeper downgradient wells placed approximately 220 feet below ground.

The wells are equipped with submersible bladder pumps and purge misers (an internal packer) to reduce the volumes purged.

An approved 905 plan is on file for the facility. The Hydrogeological Monitoring Plan is dated November 1995, revised on December 18, 1998 and again on March 16, 2001.

Statistical analyses of the quarterly groundwater monitoring data do not reveal any statistically significant trends in the groundwater. It appears to be unimpacted by landfill activities.

V. VARIANCES:

None.

VI. ADDITIONAL INFORMATION:

The Company requested a waiver from the requirement to perform annual testing of industrial waste specified in Rule 302(2)(a) of Part 115. The waiver request was granted by the Department on June 10, 1997.

This Facility is being transferred to new ownership via an asset sale. The new owners will be CMP Quinnesec, LLC.