

B.8. Capability certification/compliance schedule

B.10. Construction certification (new, altered, enlarged, or expanded)



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
LANSING



LIESL EICHLER CLARK
DIRECTOR

July 21, 2021

VIA E-MAIL

Ms. Sylwia Scott, Environmental Manager
US Ecology
49350 North I-94 Service Drive
Belleville, Michigan 48111

Dear Ms. Scott:

SUBJECT: Approval; Master Cell VI-G3 Construction Quality Assurance Report;
Wayne Disposal, Inc. (WDI); Belleville, Michigan; MID 048 090 633; Waste
Data System Number 395812

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Materials Management Division (MMD), has reviewed the Master Cell VI-G3 Construction Quality Assurance Report (Report) submitted on June 11, 2021, and subsequent revisions provided on June 14, 2021, and July 12, 2021, pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451 as amended, and the administrative rules.

Based on this review, the MMD has determined that the Report is hereby approved.

Upon receipt of this approval, the MMD understands that the leachate collection system will be connected, and a Leachate Collection System Certification Report (Certification Report) shall be submitted to the MMD. The Certification Report must be approved by the MMD prior to use.

If you have any questions or comments, please contact Ms. Christine Matlock, Senior Environmental Engineer, Permit and Corrective Action Unit, Hazardous Waste Section, MMD, at 517-290-4612; MatlockC2@Michigan.gov; or EGLE, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

Kimberly M. Tyson, Manager
Hazardous Waste Section
Materials Management Division
517-388-2797

cc: Mr. Phil Tannian, Environmental Director, US Ecology
Dr. Dan Qian, EGLE
Mr. Dale Bridgford, EGLE
Ms. Mary Carnagie, EGLE
Mr. Joseph Rogers, EGLE
Mr. Michael Busse, EGLE
Ms. Christine Matlock, EGLE
Mr. Todd Zynda, EGLE
Mr. Shaun Shields, EGLE
Operating License File

11.0 CERTIFICATION

The observations and tests performed by CTI as described in this report during the construction of Master Cell VI-G3 indicate that the materials tested conform to the requirements of and construction was performed in compliance with the reference documents listed in Section 2.1.

I certify that this document and all attachments were prepared under our direction or supervision in conformance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on our inquiries of the persons who were directly responsible for gathering the information, the information submitted is, to the best of our knowledge, true, accurate, and complete.



Xianda Zhao, Ph.D., P.E.
CTI Certifying Engineer
Michigan Professional Engineer
No. 6201043923



Sylwia Scott

From: Matlock, Christine (EGLE) <MatlockC2@michigan.gov>
Sent: Wednesday, October 7, 2020 2:13 PM
To: Sylwia Scott; Phil Tannian
Cc: Taylor, Al (EGLE); Tyson, Kimberly (EGLE); Rogers, Joseph (EGLE); Shields, Shaun (EGLE); Kecskemeti, Tracy (EGLE); Michael Takacs; Qian, Xuede (EGLE)
Subject: MC VI G1 EP2 Approval for Use

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Sylwia,

Based on the review of the MC VI G Phase 1 Subcell G1 East Phase 2 Leachate Collection System Connection to MC VI G Phase 1 Subcell G1 East Report (Report) submitted on September 21, 2020, and subsequent modification submitted on September 22, 2020, MMD has determined that the submitted certification for the leachate collection system connection satisfies the requirements of Part 111 and is hereby approved.

Based on the Report approval and September 12, 2020 email approval of the MC VI G Phase 1 Subcell G1 East Phase 2 Construction Quality Assurance Report, MC VI G1 EP2 is approved for use. Please note that the September 12, 2020 email misstated the landfill cell name, which should have been MC VI G Phase 1 Subcell G1 East Phase 2 or MC VI G1 EP2.

Please let me know if there are any questions.

Thanks,
Christine

Christine Matlock
Senior Environmental Engineer
Materials Management Division
Michigan Department of Environment, Great Lakes, and Energy
matlockc2@michigan.gov
517-290-4612

Sylwia Scott

From: Matlock, Christine (EGLE) <MatlockC2@michigan.gov>
Sent: Saturday, September 12, 2020 10:56 AM
To: Sylwia Scott; Phil Tannian
Cc: Taylor, Al (EGLE); Tyson, Kimberly (EGLE); Rogers, Joseph (EGLE); Shields, Shaun (EGLE)
Subject: Approval for MC VI G2 EP2 CQA Report

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Sylwia,

Based on the review of the MC VI G Phase 1 Subcell G2 East Phase 2 Construction Quality Assurance Report, MMD has determined that the submitted certification for MC VI G2 EP2 satisfies the requirements of Part 111 and is hereby approved. The following hazardous waste landfill design drawings for MC VI G2 EP2 are hereby incorporated into Attachment 7 of WDI's Hazardous Waste Management Expansion Operating License approved on May 22, 2012:

1. Drawings G-01 and P-04 from the August 21, 2020, submission will be added to Attachment 7.
2. Drawings G-02, P-01, P-02, P-06, C-01, D-01, D-04, and D-05 from the August 11, 2020 submission will be added to Attachment 7.
3. Drawings P-03, P-05, D-02, D-03, and D-06 from the August 28, 2020 submission will be added to Attachment 7.

MMD requests that the supplemental photos submitted on August 21st and August 28th and response document submitted on August 28th be incorporated in the Construction Photo Log.

We understand that the leachate collection system will be connected with this approval and a Leachate Collection System Certification shall be submitted and approved prior to use.

Please let me know if there are any questions.

Thanks,
Christine

Christine Matlock
Senior Environmental Engineer
Materials Management Division
Michigan Department of Environment, Great Lakes, and Energy
matlockc2@michigan.gov
517-290-4612

10.0 CERTIFICATION

The observations and tests performed by CTI personnel as described in this report during the construction of Master Cell VI-G Phase 1 Subcell G1-East Phase 2 indicate that the materials tested conform to the requirements and construction was performed in compliance with the reference documents listed in Section 2.1.

I certify that this document and all attachments were prepared under our direction or supervision in conformance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on our inquiries of the persons who were directly responsible for gathering the information, the information submitted is, to the best of our knowledge, true, accurate, and complete.



Xianda Zhao, Ph.D., P.E.
CTI Certifying Engineer
Michigan Professional Engineer
No. 6201043923



Sylwia Scott

From: Matlock, Christine (EGLE) <MatlockC2@michigan.gov>
Sent: Monday, January 6, 2020 6:18 PM
To: Sylwia Scott
Cc: Taylor, Al (EGLE); Qian, Xuede (EGLE); Rogers, Joseph (EGLE); Phil Tannian
Subject: MC-VI G Phase 1 Subcell G-East Phase 1 Construction Quality Assurance Report Approval

Hi Sylwia,

EGLE has reviewed and approves the *MC-VI G Phase 1 Subcell G-East Phase 1 Construction Quality Assurance Report* submitted on December 6, 2019. WDI may start the leachate pipe connection work, however, please provide a survey to ensure the pipe connection sections have adequate slope and photos of the work within the leachate collection system certification.

Please let me know if there are any questions.

Thanks,
Christine

Christine Matlock
Senior Environmental Engineer
Materials Management Division
Michigan Department of Environment, Great Lakes, and Energy
matlockc2@michigan.gov
NEW Phone #: 517-290-4612

Sylwia Scott

From: Matlock, Christine (EGLE) <MatlockC2@michigan.gov>
Sent: Monday, March 2, 2020 9:28 AM
To: Sylwia Scott
Cc: Taylor, Al (EGLE); Dailey, Daniel (EGLE); Qian, Xuede (EGLE); Rogers, Joseph (EGLE); Phil Tannian
Subject: RE: WDI MC-VI G1 East Phase 1 Construction Conditional Approval

Hi Sylwia,

EGLE has reviewed and approves the updated temperature profile submitted on February 28, 2020. Based on this review, MC VI Phase 1 Subcell G East Phase 1 is hereby approved for use.

Please note that if waste is to be placed in the cell starting after March 4, 2020, a new updated temperature profile needs to be submitted to MMD to accurately reflect temperatures. Please let me know if there are any questions.

Thanks,
Christine

Christine Matlock
Senior Environmental Engineer
Materials Management Division
Michigan Department of Environment, Great Lakes, and Energy
matlockc2@michigan.gov
517-290-4612

From: Sylwia Scott <Sylwia.Scott@usecology.com>
Sent: Friday, February 28, 2020 3:36 PM
To: Matlock, Christine (EGLE) <MatlockC2@michigan.gov>
Cc: Taylor, Al (EGLE) <TAYLORA@michigan.gov>; Dailey, Daniel (EGLE) <DAILEYD@michigan.gov>; Qian, Xuede (EGLE) <QIANX@michigan.gov>; Rogers, Joseph (EGLE) <ROGERSJ5@michigan.gov>; Phil Tannian <phil.tannian@usecology.com>
Subject: RE: WDI MC-VI G1 East Phase 1 Construction Conditional Approval

Christine- Attached is the revised calculation sheet for the temperature profile calculation of the compacted clay liner for WDI's MC VI-G1 East Phase 1. The updated data did not change the conclusion of this calculation. The temperature profile does not indicate freezing temperatures (minimum temperature on the top of the CCL was 2.4 degrees Celsius or 36 degrees Fahrenheit on February 15) within the CCL during the modeled time history. The recorded hourly air temperature data available is up to February 26, 2020. Therefore, CTI ran the model through February 29 using synthetic hourly air temperature data for February 27 to 29. The forecasted air temperature is increasing and will therefore not change the results of the model.

WDI needs and is prepared to place waste in the cell as soon as possible. Your email requested the submission of this data 5 days in advance of anticipated use of the cell. This is interpreted to mean once your approval is obtained, WDI

must place waste in the cell no later than Wednesday, March 4, 2020 and that you will provide approval in advance of this date. Please provide clarification if I misunderstood your email.

Sylwia Scott
Environmental Compliance Manager

sylwia.scott@usecology.com

p: 734.699.6294

49350 North I-94 Service Drive Belleville, MI 48111

Emergency Response: 800.839.3975

Customer Service: 800.592.5489



Unequaled service. Solutions you can trust.
USECology.com

From: Matlock, Christine (EGLE) [<mailto:MatlockC2@michigan.gov>]

Sent: Wednesday, February 26, 2020 1:34 PM

To: Sylwia Scott <Sylwia.Scott@usecology.com>

Cc: Taylor, Al (EGLE) <TAYLORA@michigan.gov>; Dailey, Daniel (EGLE) <DAILEYD@michigan.gov>; Qian, Xuede (EGLE) <QIANX@michigan.gov>; Rogers, Joseph (EGLE) <ROGERSJ5@michigan.gov>; Phil Tannian <phil.tannian@usecology.com>

Subject: WDI MC-VI G1 East Phase 1 Construction Conditional Approval

Hi Sylwia,

EGLE, Materials Management Division has completed our review and approved the following reports: *MC VI Phase 1 Subcell G-East Phase 1 Construction Quality Assurance Report, Temperature Profile in Liner System at WDI MC VI G1 EP1*, and

MC VI G Phase 1 Subcell G1 East Phase 1 Leachate Collection System Connection to MC VI G Phase 1. The reports are in compliance with Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and its administrative rules. Based on this review, MC VI Phase 1 Subcell G East Phase 1 is hereby approved for use with the following condition:

1. Prior to use, CTI must continue to calculate the worst-case scenario that may occur with the clay liner before the waste enters the site to demonstrate that freezing and thawing of the clay liner will not happen with time in this winter and submit the calculation results based on the actual temperature changes to Michigan EGLE MMD. Submit the updated temperature profile 5 days in advance of anticipated use of the cell.

Please note that the Temperature Profile in Liner System email approval on 02/10/2020 stated MC IV instead of MC VI. Please let me know if there are any questions.

Thanks,
Christine

Christine Matlock
Senior Environmental Engineer
Materials Management Division
Michigan Department of Environment, Great Lakes, and Energy
matlockc2@michigan.gov
517-290-4612

9.0 CERTIFICATION

The observations and tests performed by CTI personnel as described in this report during the construction of Master Cell VI-G Phase 1 Subcell G1-East Phase 1 indicate that the materials tested conform to the requirements and construction was performed in compliance with the reference documents listed in Section 2.1.

I certify that this document and all attachments were prepared under our direction or supervision in conformance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on our inquiries of the persons who were directly responsible for gathering the information, the information submitted is, to the best of our knowledge, true, accurate, and complete.



Xianda Zhao, Ph.D., P.E.
CTI Certifying Engineer
Michigan Professional Engineer
No. 6201043923



Sylwia Scott

From: Matlock, Christine (EGLE) <MatlockC2@michigan.gov>
Sent: Tuesday, August 6, 2019 4:36 PM
To: Sylwia Scott; Phil Tannian
Cc: Taylor, Al (EGLE); Tyson, Kimberly (EGLE); Rogers, Joseph (EGLE)
Subject: WDI MC-VI G Phase 2 Subcell G2 Construction Approval

Hi Sylwia,

EGLE has reviewed and approved the following reports: *MC-VI G Phase 2 Subcell G2 Construction Quality Assurance Report*, *MC-VI G Phase 2 Subcell G2 Leachate Collection System Certification*, and *MC-VI G Phase 2 Subcell G2 Leachate Collection to Master Cell VI-VI G Phase I*. WDI is certified to start using Master Cell VI G Phase 2 Subcell G2. A formal letter will be coming in the near future.

Please let me know if there are any questions.

Thanks,
Christine

Christine Matlock
Senior Environmental Engineer
Materials Management Division
Michigan Department of Environment, Great Lakes, and Energy
517.284.6577 | matlockc2@michigan.gov

16.0 CERTIFICATION

The observations and tests performed by CTI personnel as described in this report during the construction of MC-VI G Phase 2 Subcell G2 indicate that the materials tested conform to the requirements and construction was performed in compliance with the reference documents listed in Section 2.1, except as noted in this report and agreed to by EGLE.

We certify that this document and all attachments were prepared under our direction or supervision in conformance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on our inquiries of the persons who were directly responsible for gathering the information, the information submitted is, to the best of our knowledge, true, accurate, and complete.



Xianda Zhao, Ph.D., P.E.
CTI Certifying Engineer
Michigan Professional Engineer
No. 6201043923



July 2, 2019



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

December 12, 2014

Mr. Michael L. Porath
Operations Manager
EQ, A US Ecology Company
Wayne Disposal, Inc.
49350 North I-94 Service Drive
Belleville, Michigan 48111

Dear Mr. Porath:

SUBJECT: Approval of Recertification Master Cell VI-G Phase 1 East; Wayne Disposal, Inc. (WDI), Site No. 2; MID 048 090 633

The Department of Environmental Quality (DEQ), Office of Waste Management and Radiological Protection (OWMRP), has reviewed the November 21, 2013, MC VI G Phase 1 Recertification Wayne Disposal Site 2 letter provided by Mannik and Smith Group, Inc. (MSG), pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

Based on that review, the OWMRP has determined that the submitted recertification for the eastern portion of Master Cell VI-G Phase 1 satisfies the requirements of Part 111 and is hereby approved.

We understand that the contact water management pond in the northeast corner of Master Cell VI-G and associated piping will need to be constructed and the certification approved prior to the cell being put into use.

Should you require further information, please contact Mr. Peter Quackenbush of the Hazardous Waste Section at 517-284-6568; quackenbushp@michigan.gov; or DEQ, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

DeLores Montgomery, Chief
Hazardous Waste Section
Office of Waste Management and
Radiological Protection

cc: Mr. Mike Takas, WDI
Mr. Ibraheem Alshunnar, MSG
Mr. Mike Busse, DEQ
Mr. Leo Parks, DEQ
Dr. Dan Qian/Mr. Peter Quackenbush, DEQ
Operating License File



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

October 12, 2015

Mr. Michael L. Porath
Operations Manager
EQ, A US Ecology Company
Wayne Disposal, Inc.
49350 North I-94 Service Drive
Belleville, Michigan 48111

Dear Mr. Porath:

SUBJECT: Approval of Recertification Master Cell VI-G Phase 1 West; Wayne Disposal, Inc.,
Site No. 2; MID 048 090 633

The Department of Environmental Quality (DEQ), Office of Waste Management and Radiological Protection (OWMRP), has reviewed the September 15, 2015, Master Cell VI-G Phase 1 Recertification Wayne Disposal, Inc. (WDI), Site No. 2 letter provided by Mannik and Smith Group, Inc. (MSG), pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

Based on that review, the OWMRP has determined that the submitted recertification for the western portion of Master Cell VI-G Phase 1 cell floor satisfies the requirements of Part 111 and is hereby approved.

We understand that the leachate discharge, leak detection discharge, and leachate clean-out piping at the western end of the cell will have to be straightened and recertified prior to use and the side slopes will be certified prior to placement of sand on the slopes.

Should you require further information, please contact Mr. Peter Quackenbush of the Hazardous Waste Section at 517-284-6568; quackenbushp@michigan.gov; or DEQ, OWMRP, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

DeLores Montgomery, Chief
Hazardous Waste Section
Office of Waste Management and
Radiological Protection

cc: Ms. Slywia Scott, WDI
Mr. Ibraheem Shunnar, MSG
Mr. Mike Busse, DEQ
Mr. Leo Parks, DEQ
Dr. Dan Qian/Mr. Peter Quackenbush, DEQ
Operating License File

6.0 STATEMENT OF CERTIFICATION

During the construction of Master Cell VI-G, Phase 1 at Site No. 2 of Wayne Disposal Inc., located in Van Buren Township, Wayne County, Michigan; staff of the Mannik & Smith Group, Inc. (MSG), monitored all aspects of the earthwork and geosynthetics construction operations including the placement of compacted and structural fills, secondary and primary clay liners, secondary and primary geomembranes, leak detection, collection and removal system, and leachate collection and removal system.

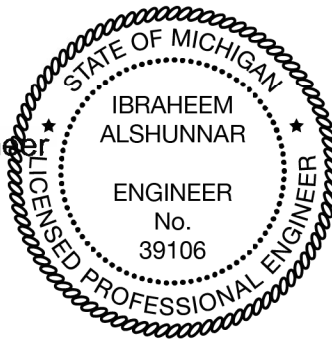
I, Ibraheem S. Shunnar, a Professional Engineer registered in the State of Michigan, hereby certify that representatives from MSG have monitored the construction activities associated with earthwork and geosynthetic construction operations for Master Cell VI-G Phase 1 including the placement of compacted and structural fills, secondary and primary clay liners, secondary and primary geomembranes, leak detection, collection and removal system, and leachate collection and removal system. To the best of my knowledge and belief, the construction at the aforementioned facility has been completed in conformance with the project specifications, subject to the modifications described in this report.

Ibraheem Shunnar

Ibraheem S. Shunnar, P.E.

State of Michigan Professional Engineer

Registration No. 39106





RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



KEITH CREAGH
DIRECTOR

May 13, 2016

Mr. Michael L. Porath
Operations Manager
EQ, A US Ecology Company
Wayne Disposal, Inc.
49350 North I-94 Service Drive
Belleville, Michigan 48111

Dear Mr. Porath:

SUBJECT: Approval of Master Cell VI-G Phase 1 Sand Certification; Wayne Disposal, Inc.,
Site No. 2; MID 048 090 633

The Department of Environmental Quality (DEQ), Office of Waste Management and Radiological Protection (OWMRP), has reviewed the May 5, 2016, Master Cell VI-G Phase 1 Sand Certification, Wayne Disposal, Inc. (WDI), Site No. 2 letter provided by Mannik and Smith Group, Inc. (MSG), pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

Based on that review, the OWMRP has determined that the submitted certification for the leachate sand for the southern and western side slope portion of Master Cell VI-G Phase 1 satisfies the requirements of Part 111 and is hereby approved.

Should you require further information, please contact me at 517-284-6568; quackenbushp@michigan.gov; or DEQ, OWMRP, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

Peter Quackenbush
Senior Environmental Engineer
Hazardous Waste Section
Office of Waste Management and
Radiological Protection

cc: Ms. Sylwia Scott, WDI
Mr. Ibraheem Shunnar, MSG
Mr. Mike Busse, DEQ
Mr. Leo Parks, DEQ
Dr. Dan Qian, DEQ
Operating License File



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



C. HEIDI GRETHER
DIRECTOR

July 28, 2017

Mr. Michael L. Porath
Operations Manager
US Ecology
Wayne Disposal, Inc.
49350 North I-94 Service Drive
Belleville, Michigan 48111

Dear Mr. Porath:

SUBJECT: Approval of Master Cell VI-G Phase 1 Sand Certification;
Wayne Disposal, Inc., Site No. 2; MID 048 090 633

The Department of Environmental Quality (DEQ), Waste Management and Radiological Protection Division (WMRPD), has reviewed the June 19, 2017, Master Cell VI-G Phase 1 Sand Certification, Wayne Disposal, Inc. (WDI), Site No. 2 letter provided by Mannik and Smith Group, Inc. (MSG), pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

Based on that review, the WMRPD has determined that the submitted certification for the leachate sand for the northern and western side slope portion of Master Cell VI-G Phase 1 satisfies the requirements of Part 111 and is hereby approved.

Should you require further information, please contact me at 517-284-6568; quackenbushp@michigan.gov; or DEQ, WMRPD, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

Peter Quackenbush
Senior Environmental Engineer
Hazardous Waste Section
Waste Management and Radiological
Protection Division

cc: Ms. Sylwia Scott, WDI
Mr. Ibraheem Shunnar, MSG
Mr. Mike Busse, DEQ
Mr. Leo Parks, DEQ
Dr. Dan Qian, DEQ
Operating License File



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



C. HEIDI GRETHUR
DIRECTOR

July 16, 2018

Ms. Sylwia Scott
Environmental Manager
US Ecology
Wayne Disposal, Inc.
49350 North I-94 Service Drive
Belleville, Michigan 48111

Dear Ms. Scott:

SUBJECT: Approval of Master Cell VI-Cell G Phase 1 Sand Certification;
Wayne Disposal, Inc., Site No. 2; MID 048 090 633

The Department of Environmental Quality (DEQ), Waste Management and Radiological Protection Division (WMRPD), has reviewed the June 25, 2018, Master Cell VI-Cell G Phase 1 Sand Certification, Wayne Disposal, Inc. (WDI), Site No. 2, letter provided by CTI and Associates (CTI), pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

Based on that review, the WMRPD has determined that the submitted certification for the leachate sand for the northern, southern, and western side slope portions of Master Cell VI-Cell G Phase 1 satisfies the requirements of Part 111 and is hereby approved.

Should you require further information, please contact me at 517-284-6577; matlockc2@michigan.gov; or DEQ, WMRPD, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

Christine Matlock
Senior Environmental Engineer
Hazardous Waste Section
Waste Management and Radiological
Protection Division

cc: Dr. Xianda Zhao, CTI
Mr. Joshua Guy, CTI
Mr. Allan Taylor, DEQ
Ms. Virginia Himich, DEQ
Dr. Dan Qian, DEQ
Mr. Mike Busse, DEQ
Mr. Leo Parks, DEQ
Operating License File



STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



NNIFER M. GRANHOLM
GOVERNOR

STEVEN E. CHESTER
DIRECTOR

May 23, 2008

Mr. Kerry Durnen, P.E.
Director of Operations
The Environmental Quality Company
Wayne Disposal, Inc.
49350 North I-94 Service Drive
Belleville, Michigan 48111

Dear Mr. Durnen:

SUBJECT: Construction Certification Master Cell VI-E Phase 2 West; Wayne Disposal, Inc. (WDI), Site No. 2; MID 048 090 633

The Department of Environmental Quality (DEQ), Waste and Hazardous Materials Division (WHMD), has reviewed the March 2008 "Construction Certification Master Cell VI-E Phase 2 West," submitted on your behalf by NTH Consultants, Ltd., on March 17, 2008, and the revised Panel Layout Drawings G-1 and G-2 provided on April 25, 2008, pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

Based on that review, the WHMD has determined that the submitted certification for Master Cell VI-E Phase 2 West satisfies the requirements of Part 111 and is hereby approved.

Should you have any questions regarding this information, please contact Mr. Peter Quackenbush, Hazardous Waste Section, WHMD, at 517-373-7397.

Sincerely,

George W. Bruchmann, Chief
Waste and Hazardous Materials Division
517-373-9523

cc: Mr. Scott Maris, WDI
Mr. David Andersen, WDI
Mr. Michael Porath, WDI
Mr. Timothy Tilotti, WDI
Mr. Robb B. Moore, NTH Consultants, Ltd.
Mr. Ibraheem Alshunnar, NTH Consultants, Ltd.
Mr. JengHwa Lyang, NTH Consultants, Ltd.
Mr. Jim Sygo, Deputy Director, DEQ
Mr. Steve Buda, DEQ
Mr. Larry AuBuchon/Mr. Mike Busse, DEQ
Ms. Christine Grossman, DEQ
Dr. Xuede (Dan) Qian, DEQ
Mr. Leo Parks, DEQ
Mr. Peter Quackenbush/Operating License File, DEQ



WIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



STEVEN E. CHESTER
DIRECTOR

February 6, 2007

Mr. Kerry Durnen, P.E., Director of Operations
The Environmental Quality Company
Wayne Disposal, Inc.
49350 North I-94 Service Drive
Belleville, Michigan 48111

Dear Mr. Durnen:


SUBJECT: Construction Certification Master Cell VI-E Phase 2 SE; Wayne Disposal,
Inc. (WDI), Site No. 2; MID 048 090 633

The Department of Environmental Quality (DEQ), Waste and Hazardous Materials Division (WHMD), has reviewed the December 2006 "Construction Certification Master Cell VI-E Phase 2 SE," submitted on December 29, 2006, pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

Based on that review, the WHMD has determined that the submitted certification for Phase 2 SE of Master Cell VI-E satisfies the requirements of Part 111 and is hereby approved. However, please be advised that the WHMD anticipates resolution of the compliance issues addressed under the draft polychlorinated biphenyl order transmitted to WDI on October 6, 2006, and the draft Master Cell IX order transmitted on November 17, 2006, prior to the issuance of a renewed Part 111 operating license to WDI.

Should you have any questions regarding this information, please contact Mr. Peter Quackenbush, Hazardous Waste Section, WHMD, at 517-373-7397.

Sincerely,



George W. Bruchmann, Chief
Waste and Hazardous Materials Division
517-373-9523

cc: Mr. Scott Maris, WDI
Mr. Michael Porath, WDI
Mr. Timothy Tilotti, WDI
Mr. Robb B. Moore, NTH Consultants, Ltd.
Mr. Ibraheem Alshunnar, NTH Consultants, Ltd.
Mr. Jim Sygo, Deputy Director, DEQ
Mr. Steve Buda/Operating License File, DEQ
Mr. Larry AuBuchon/Mr. Mike Busse, DEQ
Ms. Christine Grossman, DEQ
Mr. Xuede (Dan) Qian, DEQ
Mr. Peter Quackenbush, DEQ
Mr. Leo Parks, DEQ



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



STEVEN E. CHESTER
DIRECTOR

September 20, 2006

Mr. Kerry Durnen, P.E.
Director of Operations
The Environmental Quality Company
Wayne Disposal, Inc.
49350 North I-94 Service Drive
Belleville, Michigan 48111

Dear Mr. Durnen:

SUBJECT: Reinforcement of Leak Detection Riser at Subcell A-North of Master Cell VI;
Wayne Disposal, Inc. (WDI), Site No. 2; MID 048 090 633

The Department of Environmental Quality (DEQ), Waste and Hazardous Materials Division (WHMD), has reviewed the September 11, 2006, Certification of the Reinforcement of Leak Detection Riser at Subcell A-North of Master Cell VI, submitted on WDI's behalf by NTH Consultants, Ltd. (NTH), pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

Based on our review, the WHMD agrees that the leak detection system for Subcell A-North is fully functional and hereby approves the certification. WDI's plan to begin placing waste in the tie-in trench between Subcell A-North and Subcell E is consistent with WDI's "Recommended Action for Cleanouts" as proposed in the Evaluation of Leachate Collection System Cleanouts for Master Cell VI and may proceed.

Should you have any questions, please contact Mr. Peter Quackenbush, Hazardous Waste Section, WHMD, at 517-373-7397.

Sincerely,

George W. Bruchmann, Chief
Waste and Hazardous Materials Division
517-373-9523

cc: Mr. JengHwa Lyang, NTH
Mr. Michael Porath, WDI
Mr. Scott Maris, WDI
Mr. Timothy Tilotti, WDI
Mr. David Andersen, The Environmental Quality Company
Mr. Steve Buda, DEQ
Mr. Larry AuBuchon/Mr. Mike Busse, DEQ
Mr. David Slayton/C&E File, DEQ
Ms. Christine Grossman, DEQ
Mr. Xuede Qian, DEQ
Mr. Peter Quackenbush, DEQ
Mr. Leo Parks, DEQ



NTH Consultants, Ltd.
Infrastructure Engineering
and Environmental Services

38955 Hills Tech Drive
Farmington Hills, MI 48331
248.553.6300
248.324.5178 Fax

Mr. Peter Quackenbush
MDEQ - WHMD
Constitution Hall, Atrium North
PO Box 30241
525 W. Allegan Street
Lansing, Michigan 48909

September 11, 2006
NTH Proj. No. 13-030550-01

RE: Reinforcement of Leak Detection Riser at Subcell A-North
Wayne Disposal, Inc., Site No. 2, Master Cell VI
Belleville, Michigan

Dear Mr. Quackenbush:

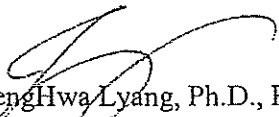
On behalf of Wayne Disposal, Inc., NTH Consultants, Ltd. submits the attached certification letter for the reinforcement of the secondary riser at subcell A-North in Master Cell VI. Reinforcement of the subcell A-North riser was completed in substantial conformance with the "Leak Detection Riser Sliplining Work Plan" dated January 19, 2006 and revised on March 16, 2006 with modifications stated in the certification letter.

We understand that waste placement in the tie-in trench between subcell A-North and subcell E is authorized to begin following submittal of the attached certification letter.

Please contact Mr. Kerry Durnen of Wayne Disposal, Inc. at 734-699-6265 or me at 248-324-5312 if you have any questions or comments regarding this submittal.

Sincerely,

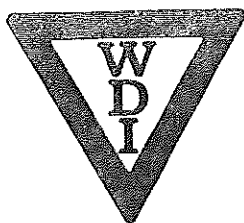
NTH Consultants, Ltd.


JengHwa Lyang, Ph.D., P.E.
Manager, Engineer Group

JHL/pb

Attachment

cc: Xuede Qian (MDEQ)
Kerry Durnen (WDI)
Michael Porath (WDI)
David Andersen (EQ)



WAYNE DISPOSAL, INC.

June 14, 2006

Mr. Peter Quackenbush
Michigan Department of Environmental Quality
525 West Allegan
Lansing, MI 48933

RE: Wayne Disposal Inc. (WDI), MID 048090633
MCVI – E Phase II Cell Construction

Dear Mr. Quackenbush:

WDI is currently installing a portion of the Phase II cell of Master Cell VI E. This portion of the Phase II construction is being installed in accordance with the "Engineering Report on Basis of Design – Master Cell VI Design Modification" prepared by NTH Consultants, Ltd dated March 2001. Upon completion of construction, WDI will provide for your review a Construction Documentation Report pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

If you have any questions regarding this information or need extra copies of any of the drawings provided, please feel free to call me at 734-699-6297 or Kerry Durnen at 734-699-6265.

Sincerely,

David Andersen, WDI

Enclosure

CC: Leo Parks, MDEQ
Kerry Durnen, WDI
Scott Maris, EQ

File: WDI 2.1.3



STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



STEVEN E. CHESTER
DIRECTOR

J. JIFER M. GRANHOLM
GOVERNOR

April 5, 2006

Mr. Kerry Durnen, P.E.
Director of Operations
The Environmental Quality Company
Wayne Disposal, Inc.
49350 North I-94 Service Drive
Belleville, Michigan 48111

Dear Mr. Durnen:

SUBJECT: Reinforcement of Leak Detection Riser at Subcell B of Master Cell VI; Wayne Disposal, Inc. (WDI), Site #2; MID 048 090 633

The Department of Environmental Quality (DEQ), Waste and Hazardous Materials Division (WHMD), has reviewed the March 28, 2006, certification of the Reinforcement of Leak Detection Riser at Subcell B of Master Cell VI, submitted on WDI's behalf by NTH Consultants, Ltd., pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Based on that review, the WHMD agrees that the leak detection system for Subcell B is fully functional and hereby approves the certification.

WDI's plan to begin placing waste in the tie-in trench between Subcell B and Subcell E is consistent with WDI's "Recommended Action for Cleanouts," as proposed in the Evaluation of Leachate Collection System Cleanouts for Master Cell VI, and, therefore, may proceed.

Should you have any questions, please contact Mr. Peter Quackenbush, Hazardous Waste Section, WHMD, at 517-373-7397.

Sincerely,

George W. Bruchmann, Chief
Waste and Hazardous Materials Division
517-373-9523

cc: Mr. James J. Parsons, P.E., NTH Consultants, Ltd.
Mr. Scott Maris, WDI
Mr. Timothy Tilotti, WDI
Mr. Steve Buda, DEQ
Ms. De Montgomery/C&E File, DEQ
Mr. Larry AuBuchon/Mr. Mike Busse, DEQ
Ms. Christine Grossman, DEQ
Mr. Dan Qian, DEQ
Mr. Peter Quackenbush, DEQ
Mr. Leo Parks, DEQ



NTH Consultants, Ltd.

Infrastructure Engineering
and Environmental Services

38955 Hills Tech Drive
Farmington Hills, MI 48331
248.553.6300
248.324.5178 Fax

Mr. Peter Quackenbush
MDEQ - WHMD
Constitution Hall, Atrium North
PO Box 30241
525 W. Allegan Street
Lansing, Michigan 48909

March 28, 2006
NTH Proj. No. 13-030550-01

RE: Reinforcement of Leak Detection Riser at Sub Cell B
Wayne Disposal, Inc., Site No. 2, Master Cell VI
Belleville, Michigan

Dear Mr. Quackenbush:

On behalf of Wayne Disposal, Inc., NTH Consultants, Ltd. submits the attached certification letter for the reinforcement of the secondary riser at subcell B in Master Cell VI. Reinforcement of the subcell B riser was completed in substantial conformance with the "Leak Detection Riser Sliplining Work Plan" dated January 19, 2006 and revised on March 16, 2006.

We understand that, per your telephone conversation with Mr. Kerry Durnen of Wayne Disposal, Inc. on March 28, 2006, waste placement in the tie-in trench between subcell B and subcell E is authorized to begin following submittal of the attached certification letter.

We note that as part of the "Evaluation of Leachate Collection System Cleanouts" report submitted to the Department on January 5, 2006, NTH recommended reinforcement of cleanout riser B1. This letter also serves to reaffirm WDI's proactive and precautionary commitment to reinforce the B1 cleanout riser. Because this riser is currently fully functional and is located near the transfer box, which will not be filled in the near future, immediate reinforcement is not necessary. WDI will complete the recommended reinforcement before waste is placed in the transfer box.

Please contact Mr. Kerry Durnen of Wayne Disposal, Inc. at 734-699-6265 or me at 248-324-5329 if you have any questions or comments regarding this submittal.

Sincerely,

NTH Consultants, Ltd.


James J. Parsons, P.E.
Principal Engineer

JHL/pb

Attachment

cc: Xuède Qian (MDEQ)
Kerry Durnen (WDI)



NTH Consultants, Ltd.
Infrastructure Engineering
and Environmental Services

38955 Hills Tech Drive
Farmington Hills, MI 48331
248.553.6300
248.324.5178 Fax

Mr. Peter Quackenbush
MDEQ - WHMD
Constitution Hall, Atrium North
PO Box 30241
525 W. Allegan Street
Lansing, Michigan 48909

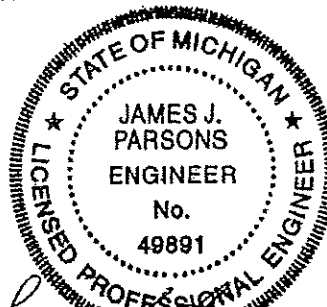
March 28, 2006
NTH Proj. No. 13-030550-01

RE: Certification for Reinforcement of Leak Detection Riser at Subcell B
Wayne Disposal, Inc., Site No. 2, Master Cell VI
Belleville, Michigan

Dear Mr. Quackenbush:

This letter certifies that the reinforcement of the leak detection riser in subcell B of Master Cell VI at Wayne Disposal, Inc. Site No. 2 in Belleville, Michigan has been reinforced in substantial compliance with the "Leak Detection Riser Sliplining Work Plan" dated January 19, 2006 and revised on March 16, 2006.

I, James J. Parsons, a Professional Engineer registered in the State of Michigan, hereby certify that representatives from NTH have monitored the activities associated with reinforcement of the leak detection riser in subcell B of Master Cell VI. To the best of my knowledge and belief, the reinforcement of the leak detection riser in subcell B was completed in compliance with the "Leak Detection Riser Sliplining Work Plan" dated January 19, 2006 and revised on March 16, 2006 with the following minor deviations; 1) Field modifications to the volume of filter material were made to assure that high strength grout was in place at the desired elbow location, and 2) Camera inspection could not be done due to inability to insert the camera through the elbow. Lengths of filter material, choke sand and grout within the annular space between the riser pipe and slipline pipe were confirmed at hourly intervals using a measured rod.



James J. Parsons
James J. Parsons, P.E.
State of Michigan Professional Engineer
Registration No. 49891

Attachments: Daily Field Reports



ANITA M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



STEVEN E. CHESTER
DIRECTOR

June 4, 2004

Mr. Kerry Durnen, P.E., Director of Operations
The Environmental Quality Company
Wayne Disposal, Inc.
49350 North I-94 Service Drive
Belleville, Michigan 48111

Dear Mr. Durnen:

SUBJECT: Certification of Construction, Phase I Cell VI E,
Wayne Disposal, Inc. (WDI), Site #2; MID 048 090 633

The Department of Environmental Quality (DEQ), Waste and Hazardous Materials Division (WHMD), has reviewed the April 29, 2004, response to DEQ comments on the Construction Documentation Report submitted on November 4, 2003, pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Based on that review, the WHMD has determined that the Certification of Construction for Phase I of Cell VI E satisfies the requirements of Part 111 and is hereby approved with the following condition:

No filling in the area between Cell E and Cells A-north and B will be allowed until the repair of the leak detection risers in A-north and B is completed and approved by the DEQ and the leachate clean-out deformations in that area have been addressed to the DEQ's satisfaction.

Should you have any questions, please contact Mr. Peter Quackenbush, Hazardous Waste and Radiological Protection Section, WHMD, at 517-373-7397.

Sincerely,

George W. Bruchmann, Chief
Waste and Hazardous Materials Division
517-373-9523

cc: Mr. Steve Haton, WDI
Mr. Scott Maris, WDI
Mr. Michael Porath, WDI
Mr. Timothy Tilotti, WDI
Ms. Liane Shekter Smith, DEQ/Operating License File
Mr. Steve Buda, DEQ
Mr. Larry AuBuchon/Mr. Mike Busse, DEQ
Ms. Christine Kearns, DEQ
Mr. Dan Qian, DEQ
Mr. Peter Quackenbush, DEQ
Mr. Leo Parks, DEQ



ANIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



STEVEN E. CHESTER
DIRECTOR

March 12, 2004

Mr. Kerry Durnen, P.E., Director of Operations
The Environmental Quality Company
Wayne Disposal, Inc.
49350 North I-94 Service Drive
Belleville, Michigan 48111

Dear Mr. Durnen:

SUBJECT: Certification of Construction, Phase I Cell VI E,
Wayne Disposal, Inc. (WDI), Site #2; MID 048 090 633

The Department of Environmental Quality (DEQ), Waste and Hazardous Materials Division (WHMD), has reviewed the Construction Documentation Report submitted on November 4, 2003, pursuant to Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. At this time the WHMD believes it would be inappropriate to approve this document because of concerns regarding the Master Cell (MC) VI leak detection system riser deformation problems. Therefore, the WHMD will not consider approval of the MC VI E Phase I construction certification until sufficient documentation is provided that the planned filling between the new cell and cells VI A-North and VI B will not adversely affect the integrity of the already compromised leak detection risers. Ultimately, failure to restore the MC VI leak detection systems to their design functionality may result in the WHMD determining that placing additional waste in those areas is an unacceptable option.

For your information, attached are the WHMD technical review comments on the Certification of Construction for Phase I of MC VI E, which also must be addressed to the WHMD's satisfaction prior to consideration for approval.

Should you have any questions, please contact Mr. Peter Quackenbush, Hazardous Waste and Radiological Protection Section, WHMD, at 517-373-7397.

Sincerely,

for

George W. Bruchmann, Chief
Waste and Hazardous Materials Division
517-373-9523

Attachment

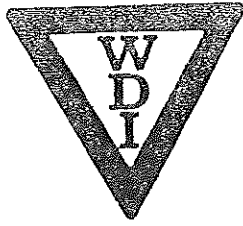
cc: Mr. Steve Haton, WDI
Mr. Scott Maris, WDI
Mr. Michael Olson, Abletech Inc.
Mr. James Parsons, NTH Consultants, Ltd.
Mr. Michael Porath, WDI
Mr. Timothy Tilotti, WDI
Ms. Liane Shekter Smith, DEQ/Operating License File
Mr. Steve Buda, DEQ
Ms. Delores Montgomery, DEQ
Mr. Larry AuBuchon/Mr. Mike Busse, DEQ
Ms. Christine Kearns, DEQ
Mr. Dan Qian, DEQ
Mr. Peter Quackenbush, DEQ
Mr. Leo Parks, DEQ

**CONSTRUCTION DOCUMENTATION REPORT
PHASE I, CELL 6E, SITE 2 LANDFILL
(MASTER CELL VI DESIGN MODIFICATION)
WAYNE DISPOSAL, INC.
TECHNICAL COMMENTS
March 12, 2004**

1. The Shelby tube test location ST-9 was not shown in Plate 1 of Appendix B in the Construction Documentation Report (Report) submitted on November 4, 2003. After checking Appendix C, Tabulation of Flex Wall Permeability Data in the Report, it was found that the samples of ST-6 and ST-9 were taken at the same location and had different test results. The Report must include an explanation of why these two Shelby tube samples were taken at the same location.
2. The Report must include an explanation of why there was a moisture/density test run at Location 959 (N7790, E5295) of Lift 21 as shown in Plate 21 of Appendix B and there were no tests run at the same area of Lifts 19 and 20 under Lift 21.
3. The Report must include an explanation of why there were three moisture/density tests run at Locations 982 (N7760, E5170), 983 (N7850, E5175), and 984 (N7960, E5170) of Lift 26 as shown in Plate 26 of Appendix B and there were no tests run at the same area of Lifts 24 and 25 under Lift 26.
4. The Report must include an explanation of why there was a moisture/density test run at Location 858 (N7895, E5290) of Lift 34 as shown in Plate 34 of Appendix B and there were no tests run at same area for Lifts 22 to 33 under Lift 34. In addition, an explanation must be provided as to why there were no test locations shown for the entire liner area for Lifts 28 to 33.
5. The first lift of the primary clay liner was placed with a loose lift thickness of 18 inches and was compacted to a thickness of approximately 12 inches to prevent damage to the geocomposite drainage layer under the primary clay liner. The following lifts were placed with a maximum loose lift thickness not exceeding 9 inches. The loose lifts were compacted to a thickness of approximately 6 inches. In that case, the 5-foot primary clay liner should be compacted as 9 lifts. The Report must include an explanation of why there are only 8 lifts where moisture/density tests were run as shown in Appendix B.
6. Section 2.2.2 Geomembrane of the Report (page 5 of 13, Volume 1) states that "NTH sampled and tested the geomembrane to assure a residual interface friction equivalent to at least 15 degrees when tested within the compacted clay and the geocomposite. Appendix E presents these test results." However, page 2002201ds2 in Appendix E of the Report shows that

the residual friction angle between geocomposite and 80-millimeter texture high density polyethylene is only 10.6 degrees and the value of adhesion was not presented in the result figure. Pages 2002201ds3 and 2002201ds7 in Appendix E of the Report show that the residual friction angles for "geocomposite only" are only 8.2 degrees and 5.8 degrees, respectively, and the values of adhesion were not presented in the result figures. The Report did not include any equivalency demonstrations in Appendix E of the Report to assure residual interface frictions at different interfaces equivalent to at least 15 degrees. This demonstration must be provided in the Report.

7. Appendix E of the Report includes a direct shear strength test result presenting the relationship between displacement and apparent shear load for the interface between geocomposite and compacted clay under vertical pressure of 58 and 82 pounds per square inch. However, the Report does not specify the interface friction angle and adhesion based on the test result. As stated above, the Report did not include any equivalency demonstrations in Appendix E of the Report to assure residual interface frictions at different interfaces equivalent to at least 15 degrees. This demonstration must be provided in the Report.



WAYNE DISPOSAL, INC.

Hand Delivered

(4) copies.

November 4, 2003

Mr. George Bruchmann, Chief
Waste Management Division
Michigan Department Of Environmental Quality
525 West Allegan
Lansing, MI 48909-7741

Re: Certification of Construction
Phase I, Cell 6E, Site 2 Landfill

Ref: Construction Documentation Report
Phase I, Cell 6E (Master Cell VI Design Modification)
Site 2 Landfill, Wayne Disposal, Inc.
NTH Consultants, Ltd., October 24, 2003

Dear Mr. Bruchman:

Wayne Disposal, Inc. (WDI) has completed construction of Phase I, Cell 6E of the Site 2 Landfill. Pursuant to I.E.1(g) of our operating license¹ we are herewith submitting the above referenced Construction Documentation Report for this new cell. This report provides demonstration that WDI has completed construction of the cell in compliance with the operating license and approved plans therein. Appendix M of this report presents the certification of construction by a registered Professional Engineer.

We would like to request your review of this report, inspection of the project, and approval to place waste in this new cell. As we are close to the fill capacity of the existing approved landfill your timely review and approval of the new cell, so that disposal operations are not interrupted, will be greatly appreciated. Please contact me should you have any questions or comments concerning this report. Thank you for your attention to our project.

Sincerely,

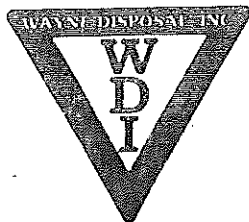
Kerry Durnen, P.E.
Director of Operations

c: P. Quackenbush, WMD/MDEQ (3 copies)
M. Olson, Abletech, Inc.
J. Parsons, NTH Consultants, Ltd.
S. Haton, WDI
M. Porath, WDI
T. Tilotti, WDI

NOV 04 2003

Waste and Hazardous
Materials Division

¹ Hazardous Waste Management Facility Operating License pursuant to Part 111 of the Natural Resources and Environmental Protection Act, 1994 PA 451, Site 2 Landfill, Wayne Disposal, Inc., MID 048 090 633, July 13, 2001



WAYNE DISPOSAL, INC.

CORPORATE OFFICES
1349 WHITTAKER ROAD, YPSILANTI, MICHIGAN 48197
(313) 485-6460 • FAX: (313) 485-6450

December 10, 1991

Federal Express

RCRA Activities
U. S. EPA, Region V, P.O. Box A3587
Chicago, Illinois 60690-3587
Attn: Shari L. Kolak

Re: CQA Report/Construction Certification
Master Cell VI, Cell D
Site No. 2 Hazardous Waste Landfill, MID 048 090 633

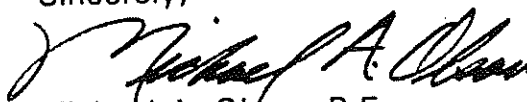
Dear Ms. Kolak:

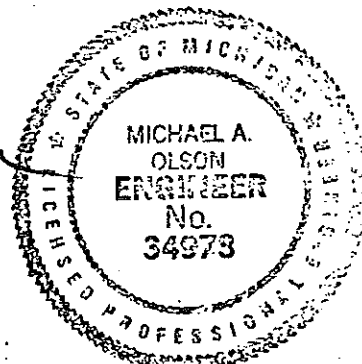
We are herewith transmitting a copy of the Construction Quality Assurance (CQA) Report and construction certification for Master Cell VI, Cell D of the above-captioned site. The cell was completed on August 14, 1991, and the construction certification for the cell was approved by the Michigan Department of Natural Resources Waste Management Division (MDNR/WMD) on October 10, 1991.

This is duplicate copy of the complete CQA Report and construction certification submitted to and approved by MDNR/WMD pursuant to the Michigan Act 64 operating license for the facility. However, to comply with additional requirements of the March 30, 1990 RCRA permit for the site, we have inserted documentation of personnel qualifications at the end of Volume 3, Appendix C, and a "Report on Fingerprinting Test Results of PE Pipe," at the end of Volume 3, Appendix H. Also, please note that Volume 3 actually spans two 3-ring binders, because of current photocopying limitations.

If you have any questions on this material, please do not hesitate to contact me at 313-485-6460.

Sincerely,


Michael A. Olson, P.E.
Project Engineer



cc: Jerry Fore, WDI
Don Vilnius, WDI
Mark Young, WDI

NATURAL RESOURCES COMMISSION

MARLENE J. FLUHARTY
GORDON E. GUYER
O. STEWART MYERS
RAYMOND POUPORE



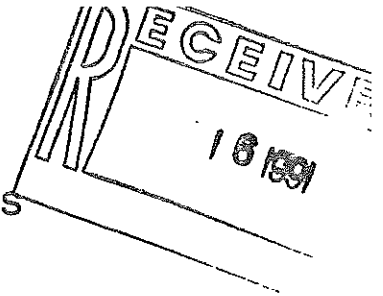
JOHN ENGLER, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING
P.O. BOX 30028
LANSING, MI 48909

~~XXXXXXXXXXXX~~

Roland Harmes, Director



October 10, 1991

Mr. Jerry Fore
Vice President
Wayne Disposal, Inc.
1349 Huron Road
Ypsilanti, Michigan 48197

Dear Mr. Fore:

Subject: Master Cell VI D Construction Certification,
Wayne Disposal, Inc. MID 048 090 633

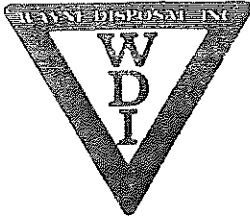
Waste Management Division has completed review of the construction certification documents for Master Cell VI D dated August 14, 1991. These documents satisfactorily demonstrate that the cell was constructed in accordance with the approved design plans and the construction quality assurance plans contained in the Act 64 operating license for Wayne Disposal. The construction certification for Master Cell VI D is, hereby, approved.

If you have any questions, please contact Mr. Peter Quackenbush at Waste Management Division, Department of Natural Resources, P.O. Box 30241, Lansing, Michigan 48909, or at telephone number 517-373-7397.

Sincerely,

Mindy Koch, Acting Chief
Waste Management Division
517-373-9523

cc: Mr. Richard Traub, EPA
Mr. Ken Burda, DNR/Operating License File
Mr. Peter Quackenbush, DNR
Mr. Al Taylor, DNR
Mr. Tarik Namour, DNR
Mr. Mike Busse, DNR-Livonia



WAYNE DISPOSAL, INC.

CORPORATE OFFICES
1349 WHITTAKER ROAD, YPSILANTI, MICHIGAN 48197
(313) 485-6460 • FAX: (313) 485-6450

August 14, 1991

REC'D

AUG 14 1991

Waste Management
Division

Mr. Peter Quackenbush
Mr. Allan Taylor
Michigan Department of Natural Resources
Waste Management Division
South Ottawa Tower
508 W. Allegan
Lansing, Michigan 48933

Re: CQA Report/Construction Certification
Master Cell VI, Cell D
Site No. 2 Hazardous Waste Landfill, MID 048 090 633

Ref: "Wayne Disposal, Inc., Site No. 2 Hazardous Waste Landfill, Master Cell VI, Cell D, Proposed Final Design", submitted to Peter Quackenbush and Allan Taylor, MDNR/WMD on 11/13/90; including subsequent letters from WDI to Quackenbush and Taylor dated 11/20/90, 7/17/91, and 8/13/91, and MDNR interoffice communications from Quackenbush and Taylor to the WDI Site No. 2 Operating License File dated 12/11/91.

Dear Messrs. Quackenbush and Taylor:

We are herewith submitting the Construction Quality Assurance (CQA) Report for Master Cell VI, Cell D- our next and last hazardous waste disposal cell at the Wayne Disposal, Inc., Site No. 2 Hazardous Waste Landfill.

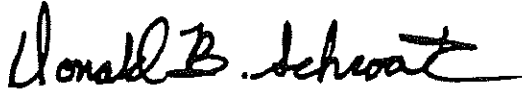
The report documents construction of the cell per the above-referenced design document and demonstrates the implementation of the CQA Plan for the project. The Table of Contents for the report is attached.

Messrs. Quackenbush and Taylor
Page 2
August 14, 1991

With this CQA Report, Wayne Disposal, Inc. hereby certifies that construction of Cell D of Master Cell VI at the Site No. 2 Hazardous Waste Landfill has been completed in substantial accordance with Michigan Act 64 standards; the March 30, 1990 operating license for the facility (which includes the CQA Plan) issued thereunder; and the above-referenced design document, and that the cell is ready to receive wastes.

We are requesting your review and approval of this CQA Report. Should any questions arise, please do not hesitate to contact us. A book of project photographs is available for review in our office if you desire. Thank you for your helpful participation throughout the completion of this construction project.

Sincerely,

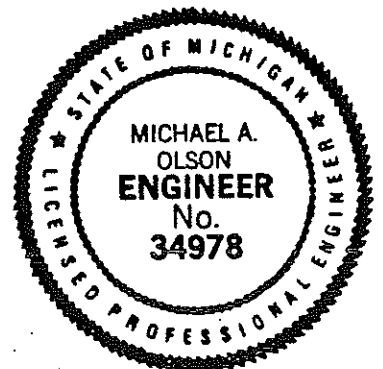


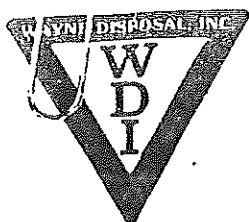
Donald B. Schroat
Construction Manager



Michael A. Olson, P.E.
Project Engineer/CQA Officer

c: Jerry Fore, WDI
Don Vilnius, WDI
Mark Young, WDI





WAYNE DISPOSAL, INC.

CORPORATE OFFICES
1349 WHITTAKER ROAD, YPSILANTI, MICHIGAN 48197
(313) 485-6460 • FAX: (313) 485-6450

April 13, 1990

Mr. Terrance J. McNiel
Mr. Peter Quackenbush
Michigan Department of Natural Resources
Waste Management Division
P.O. Box 30028
Lansing, Michigan 48909

Re: Construction Quality Assurance Report
Master Cell VI, Cell C
Wayne Disposal, Inc., Site No. 2
Hazardous Waste Landfill, MID 048 090 633

Ref: Letter Wayne Disposal, Inc. to Michigan
Department of Natural Resources, January 15, 1990
re: same as above

Letter Wayne Disposal, Inc. to Michigan
Department of Natural Resources, March 21, 1990
re: same as above

Dear Messrs. McNiel and Quackenbush:

We herewith submit Part 2, Volumes 5, 7, 8 and 9, of the subject Construction Quality Assurance Report. These volumes complete the CQA Report and provide construction records for the primary geomembrane as well as the leachate collection system. Volumes 1 through 4 (Part 1) were submitted with the January 15 letter referenced above. Volume 6 (Part 2) was submitted with the March 21 letter, also referenced above. A set of as-built drawings for Cell C are included herewith in Volume 9 of the CQA Report.

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APR 13 1990

Waste Management
Division

Page 2
Messrs. McNiel and Quackenbush
April 13, 1990

With these documents are several individual items which should be inserted in the previously submitted volumes of the CQA Report. They are identified as follows:

- 1) A revised Table of Contents reflecting the final format of the complete CQA Report. This should replace the original version at the front of Volume 1.
- 2) Quality control documents for an additional shipment of 80-mil National Seal geomembrane. These should be inserted in appropriate subsections of Section 6, Volume 4.
- 3) Quality control documents for Fluid Systems' PN-4000 geonet. A small amount of this net was used as noted in the Daily Field Report for March 21, 1990. The two geonets (PN-4000 and CONWED XB-8410) are identical in origin but are marketed under different names. These documents should be inserted in appropriate subsection of Section 7, Volume 4.
- 4) Quality control documents for additional shipments of geotextile. These should be inserted in appropriate subsections of Section 8, Volume 4.

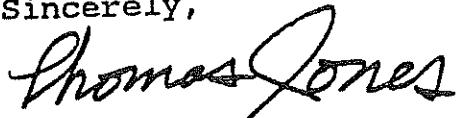
Your attention is directed to two Special Reports included in Section 9 of Volume 5. The first briefly discusses the effect of the apparent slope instability upon the subsequent construction of Cell C. It is included directly following the October 11, 1989, Daily Field Report by Mr. Thomas Jones of the WDI staff. The second addresses our response to cold weather geomembrane cracking. This Special Report is included directly following the March 26, 1989, Daily Field Report by Mr. Jones.

Wayne Disposal, Inc. hereby certifies that construction of Cell C of Master Cell VI at Wayne Disposal Site No. 2 Landfill has been completed in substantial accordance with Act 64 standards, the engineering plans, and the construction quality assurance plan, and that the cell is ready to receive wastes.

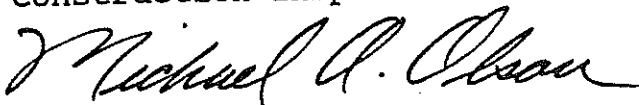
Page 3
Messrs. McNiel and Quackenbush
April 13, 1990

Thank you for your assistance in reviewing this documentation. Please do not hesitate to contact us if you have any questions.

Sincerely,



Thomas A. Jones
Construction Inspector



Michael A. Olson, P.E.
Project Engineer

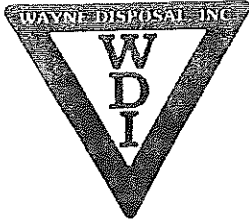


Wayne R. Bergstrom, Ph.D., P.E.
Senior Project Engineer

WRB/naw

Enclosures

cc: Don Vilnius; Wayne Disposal, Inc.
Jerry Fore; Wayne Disposal, Inc.
Mark Young; Wayne Disposal, Inc.



WAYNE DISPOSAL, INC.

CORPORATE OFFICES
1349 WHITTAKER ROAD, YPSILANTI, MICHIGAN 48197
(313) 485-6460 • FAX: (313) 485-6450

March 21, 1990

Mr. Terrance J. McNiel
Mr. Peter Quackenbush
Michigan Department of Natural Resources
Waste Management Division
P. O. Box 30028
Lansing, Michigan 48909

Re: Construction Quality Assurance Report
Master Cell VI, Cell C
Wayne Disposal, Inc., Site No. 2
Hazardous Waste Landfill, MID 048 090 633

Ref: Letter, Wayne Disposal, Inc., Michigan Department
of Natural Resources, January 15, 1990,
re: same as above.

Dear Messrs McNiel and Quackenbush:

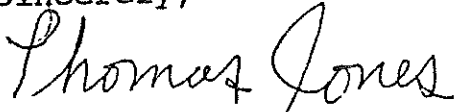
As discussed in our meeting with you in Lansing on March 7, 1990, we are herewith submitting Volume 6 of Part 2 of the Construction Quality Assurance Report for our next hazardous waste cell, identified above. Volume 6 documents geotechnical monitoring of the primary clay liner construction, completed in November, 1989. This volume is being submitted in advance of the other Part 2 volumes (Volumes 5, 7, and 8) with the hope that it may help you pace your review efforts. The balance of Part 2 will be submitted to your office shortly after completion of the project, now planned for April 1.

The above-referenced letter, and table of contents attached thereto, further explains where this submittal fits in with the entire Construction Quality Assurance Report for the cell. To keep your copy of the CQA report current, please insert this letter in the front of Volume 1, behind the above-referenced letter and in front of the Table of Contents.

Page 2
March 21, 1990

Thank you for your assistance. If you have any questions,
please contact us at 313-485-6460.

Sincerely,



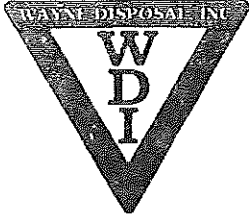
Thomas A. Jones
Construction Inspector



Michael A. Olson, P.E.
Project Engineer



Wayne R. Bergstrom, Ph.D., P.E.
CQA Officer



WAYNE DISPOSAL, INC.

CORPORATE OFFICES

1349 WHITTAKER ROAD, YPSILANTI, MICHIGAN 48197

(313) 485-6460 • FAX: (313) 485-6450

January 15, 1990

Mr. Terrance J. McNiel
Mr. Peter Quackenbush
Michigan Department of Natural Resources
Waste Management Division
P. O. Box 30028
Lansing, Michigan 48909

Re: Construction Quality Assurance Report
Master Cell VI, Cell C
Wayne Disposal, Inc., Site No. 2
Hazardous Waste Landfill, MID 048 090 633

Dear Messrs McNiel and Quackenbush:

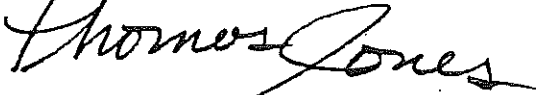
We are herewith submitting Part 1 of the two-part Construction Quality Assurance Report for our next hazardous waste cell, referenced above. Part 1 consists of four volumes which document construction of the secondary clay liner, secondary geomembrane, and the leak detection, collection and removal system. These cell components were constructed in general accordance with the engineering plans prepared by Midwestern Consulting, Inc.. dated April 5, 1989 (as submitted to your office on 4/18/89 and revised through subsequent correspondence dated 5/23/89, 6/5/89, 6/8/89, and 8/4/89), and in general accordance with the Construction Quality Assurance Plan prepared by Wayne Disposal, dated August 1987.

Part 2 of the Construction Quality Assurance Report will document construction of the primary clay liner, primary geomembrane, and the leachate collection system, and will be submitted to your office shortly after completion of the cell, which is planned for March 1. A statement certifying the compliance of cell construction with the engineering plans and Construction Quality Assurance Plan will accompany the submittal of Part 2. A copy of the Table of Contents for the report is attached hereto for convenient reference.

Page 2
Messrs McNiel and Quackenbush
January 15, 1990

Your timely review of this documentation will be greatly appreciated. Thank you for your assistance. If you have any questions, please contact us on 313-485-6460.

Sincerely,



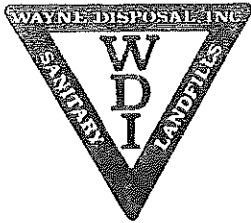
Thomas A. Jones
Construction Inspector



Michael A. Olson, P.E.
Project Engineer



Wayne R. Bergstrom, Ph.D., P.E.
CQA Officer



WAYNE DISPOSAL, INC.

POST OFFICE BOX 5187, DEARBORN, MICHIGAN 48128 • (313) 326-0200

October 18, 1988

Mr. Ken Burda
Michigan Department of Natural Resources
Waste Management Division
P.O. Box 30028
Lansing, Michigan 48909

Re: Certification of Construction
Cell B, Master Cell VI
Wayne Disposal Site #2 Landfill
MID 048 090 633

Dear Mr. Burda:

This Construction Quality Assurance Report documents construction of our next hazardous waste disposal cell, captioned above. Please note that two notebook volumes are provided with this letter. These volumes document the construction of the perimeter dike, secondary liner, leak detection system, and the compacted clay portion of the primary liner. These cell systems were constructed in accordance with the engineering plans prepared by Midwestern Consulting, Inc., dated September 15, 1987, and in accordance with the CQA Plan prepared by WDI, dated May 1986.

A second submittal will complete the construction documentation for this cell and will include construction details regarding the primary FML and the leachate collection system. A full set of as-built plans will also be provided with the second submittal. A photographic log of the work in prints or in slides is available for review at our Engineering Office.

The final volume of the CQA Report and detailed as-built plans, to be prepared by Midwestern Consulting, Inc., will be submitted to the MDNR as soon as they are completed. We expect this to be early in November. A statement certifying the compliance of cell construction with the applicable engineering plans will accompany the second submittal.