PEORIA CITY/COUNTY LANDFILL COMMITTEE
REGULAR BUSINESS MEETING AGENDA
Wednesday, February 19, 2014
8:30 A.M.

DATES SET:

WEDNESDAY, March 19, 2014 @ 8:30 a.m.
REGULAR COMMITTEE MEETING – To be held at the Lester D. Bergsten Operations & Maintenance Building, 3505 N. Dries Lane, Peoria Illinois 61604.

WEDNESDAY, April 16, 2014 @ 8:30 a.m.
REGULAR COMMITTEE MEETING – To be held at the Lester D. Bergsten Operations & Maintenance Building, 3505 N. Dries Lane, Peoria Illinois 61604.

WEDNESDAY, May 21, 2014 @ 8:30 a.m.
REGULAR COMMITTEE MEETING – To be held at the Lester D. Bergsten Operations & Maintenance Building, 3505 N. Dries Lane, Peoria Illinois 61604.

PEORIA CITY/COUNTY LANDFILL COMMITTEE
AGENDAS AND MINUTES
ISSUED BY:
LESTER D. BERGSTEN, CHAIRMAN
via the PUBLIC WORKS DEPARTMENT
3505 N. Dries Lane
(309) 494-8800
INTERNET ADDRESS: www.peoriagov.org

To access electronic Agenda & Minutes (only):
1. www.peoriagov.org
2. Click "Boards/Commissions" tab @ the top
3. Choose Solid Waste Disposal Committee (Landfill)
4. Scroll to the bottom of the screen. Under "Agenda & Minutes" will be a list of the .pdf postings.
5. Select desired document and double click to open.

*CITIZENS WISHING TO ADDRESS AN ITEM NOT ON THE AGENDA SHOULD CONTACT A COMMITTEE MEMBER PRIOR TO THE MEETING. ALL OTHER PUBLIC INPUT WILL BE HEARD UNDER PUBLIC COMMENT AT THE BEGINNING OF THE COMMITTEE MEETING.

NOTE: THE ORDER IN WHICH AGENDA ITEMS ARE CONSIDERED MAY BE MOVED FORWARD OR DELAYED BY AT LEAST 2/3 VOTE OF THE COMMITTEE MEMBERS PRESENT.

THE PEORIA CITY/COUNTY LANDFILL COMMITTEE MEETS IN REGULAR BUSINESS SESSIONS THE THIRD WEDNESDAY OF THE MONTH (JANUARY THROUGH NOVEMBER) AT 8:30 A.M. AT LESTER D. BERGSTEN OPERATIONS & MAINTENANCE FACILITY CONFERENCE ROOM, 3505 N. DRIES LANE, PEORIA, ILLINOIS.

DURING THE MONTH OF DECEMBER, PEORIA CITY/COUNTY LANDFILL COMMITTEE WILL NOT MEET UNLESS A SPECIAL MEETING IS CALLED. NOTICES OF ANY SPECIAL MEETING ARE POSTED AT LEAST 48 HOURS PRIOR.
Peoria City/County Landfill Committee Meeting  
Dries Lane Facility Conference Room  
February 19, 2014 @ 8:30 A.M.  

Attendance  

Announcements, Etc.  

Citizens' Opportunity to Address the Committee  

Minutes  

Request for Approval of the Peoria City/County Landfill Minutes  
Dated: January 15, 2014  

Agenda Items  

Item No. 1  Report from Foth Infrastructure & Environment, LLC  
A. Special Waste Approvals as Needed  
B. Permit Approvals as Needed  
C. Updates Regarding Compliance Activities, Measures & Progress  

Item No. 2  Landfill Budget and Financial Report  

Item No. 3  License Agreement  
* Hunting & Fishing License  

Item No. 4  Report from Waste Management, Inc.  
A. Monthly Activity Report  
B. Permit Approvals as Needed  

Item No. 5  Report from Peoria Disposal Co.  
A. Update on IEPA Draft Denial Comments for Peoria City/County Landfill  
B. Update on Wetland Permit Process for Peoria Park District's Vicary Bottoms Site  

Item No. 6  Approval of Proposed Settlement of Arbitration Dispute with Waste Management
UNFINISHED BUSINESS

SALE OF REAL ESTATE

NEW BUSINESS

NEXT MEETING

March 19, 2014

EXECUTIVE SESSION

ADJOURNMENT
OFFICIAL PROCEEDINGS:

FOR THE CITY OF PEORIA, ILLINOIS:

Peoria, Illinois, January 15, 2014, a Regular Meeting of the Peoria City/County Landfill Committee was held this date at 8:32 A.M., at the Lester D. Bergsten Operations & Maintenance Facility located at 3505 N. Dries Lane, Peoria, Illinois, with Chairman Lester D. Bergsten presiding.

ATTENDANCE

The following Committee Members were physically present: Chairman Les Bergsten, Rick Fox, Lynn Scott-Pearson, Ryan Spain (arrived at 8:35 a.m.) and Steve Van Winkle – 5. Absent: Timothy Riggenbach and Stephen Morris – 2.

City/County Staff present: Steve Giegelhausen, Janice Little, Karen Raithel, Mike Rogers, Scott Sorrell and Stephanie Stapleton.

Other interested parties: Joyce Blumenshine, Chris Coulter, Dan Erni, Josh Gabehart, Steve Harenburg, Curtis L. Hartog, Steve Matheny, Mike Wiersema, Attorneys Timothy Bertschy and Mike Hanson with Heyl Royster law firm, and Jerry Wyatt.

ANNOUNCEMENTS

NONE.

CITIZENS' OPPORTUNITY TO ADDRESS THE COMMITTEE

Chairman Bergsten opened the floor to any citizens who wished to address the Landfill Committee members. No one came forward to address the Committee.

MINUTES

Mr. Van Winkle moved to approve the minutes of the Regular Peoria City/County Landfill Committee Meeting held on December 4, 2013; seconded by Ms. Scott-Pearson.

Approved by viva voce vote.

AGENDA ITEMS

ITEM NO. 1. REPORT from FOTH INFRASTRUCTURE & ENVIRONMENT, LLC

A. SPECIAL WASTE APPROVALS AS NEEDED

Mr. Gabehart stated that there was one non-special waste stream permit for recertification for Midwest Generation that required Committee approval. He explained that this waste profile was previously approved by the Committee on February 12, 2009. As outlined in the "procedures for General Refuse and Special Waste Received at the City of Peoria/County of Peoria Landfill No. 2", profiles need to be
recertified by the generator every five (5) years. Foth had no technical objections to this waste stream. One pre-approval non-special waste permit for Midwest Generation Powerton Generating Station. No action was required.

Mr. Van Winkle moved to approve the special waste stream permits; seconded by Mr. Spain. 

Approved by viva voce vote.

B. PERMIT APPROVALS AS NEEDED

Mr. Gabehart stated that the following permit approvals required Mr. Bergsten’s signature: 1) PCC LF No. 1 – Clean Air Act Permit Program (CAAPP) Semi-Annual Startup, Shutdown, and Malfunction Plan (SSMP) Report; 2) PCC LF No. 1 – CAAPP Semi-Annual New Source Performance Standards (NSPS) Report; 3) PCC LF No. 1 – Semi-Annual Pretreatment Report to Greater Peoria Sanitary District; and, 4) PCC LF No. 1 – Corrective Action Update Report for G02S and G04S.

Mr. Gabehart stated that he did not anticipate any other permit requests, but respectfully requested approval to obtain Chairman Bergsten’s signature, should the need arise for any other permit or notifications due prior to the next Committee meeting.

C. GATE AUDIT

Mr. Gabehart stated that the gate audit was performed to ensure all procedures and requirements for special waste acceptance at the landfill were being met, which was part of the special waste procedures. He said the gate audit was performed by Foth on December 13, 2013. He explained that waste profiles were reviewed and found to be well organized and in order. He further explained that load checking and random sample collections were taken care of at the active site; records were up-to-date and located in the scale house building. He said that training and training records needed to be updated and kept on file at the facility as specified in Section 2.4 of the “Procedures for General Refuse and Special Waste Received” (rev Dec. 2011). According to Waste Management personnel, training was current, he said.

Mr. Gabehart stated that there were no significant issues or inconsistencies that were observed.

D. LANDFILL #1 – 4th QUARTER 2013 GROUNDWATER UPDATE

Mr. Gabehart gave brief overview of the 4th Quarter 2013 Groundwater Update and summarized the 3rd Quarter Monitoring results, including:

- **False Positives and AGQS Adjustments.** The two (2) observed increases from 3rd quarter for dissolved chromium were not confirmed during 4th quarter resampling. The initial concentrations were considered false positive errors and no further action was required. There were 10 (ten) observed increases noted during the 4th quarter event; and, five (5) of the 10 were for the compound total phenolics. The other observed increases were for metals analysis and one observed increase for oil (hexane–soluble or equivalent). All observed increases will be resampled during the 1st quarter 2014.

- **Corrective Action Underway.** Volatile organic compounds at G02S and G04S continue to be addressed by the gas collection system and will be further addressed with the leachate collection improvements.
- **Chloride.** Five (5) wells had dissolved chloride concentrations above the current permitted AGQS value. A permit modification to raise the AGQS value for dissolved chloride that was approved in Permit Modification No. 75, has been submitted with final action from the agency due on January 16, 2014. The data used to calculate the new dissolved chloride value was from 4 consecutive quarters of data beginning with 4th quarter 2012 – 3rd quarter 2013. Currently none of the groundwater wells have dissolved chloride concentrations above the proposed AGQS value. The new AGQS value should eliminate most of the false positive errors that have been associated with the lower chloride AGQS value. An assessment report was submitted for the required alternate source investigation for chloride at G06S which began in April. The last three (3) quarters the dissolved chloride concentration has been below the proposed dissolved chloride AGQS value and it was proposed that G06S return to routine detection monitoring. An assessment report for the dissolved chloride concentration at R10S was due to the agency on January 15, 2014. The current dissolved chloride concentration at R10S is below the proposed AGQS value.

- **Total Potassium, Total Vanadium, (G05S) and Oil Hexane-soluble (G24S).** An assessment report was submitted to the agency on September 13, 2013, with the recommendation that both wells return to routine detection monitoring. Permit Modification No 79 dated December 11, 2013 approved the recommendation in the assessment monitoring report and wells G05S and G24S returned to routine detection monitoring.

Mr. Gabehart stated that the Committee was responsible for assessment monitoring costs that arise based on confirmed increases. As a reminder, by contract with the Committee, Waste Management was responsible for routine groundwater sampling and re-samples at Landfill No. 1. However, assessment monitoring that arises based on increases confirmed by re-sampling are the responsibility of the Committee. This monitoring was generally completed by Waste Management’s contractor in order to reduce costs of additional trips and field personnel.

**D. Updates Regarding Compliance Activities, Measures & Progress**

Mr. Gabehart gave a brief update regarding the miscellaneous engineering items that had occurred since the last scheduled Committee meeting.

- **Financial Information**

Mr. Gabehart pointed out that the approved Engineering services budget for 2013 was $295,000. He said the total expenses for 2013 was $289,969.68, which reflected a surplus of $5,030.32.

- **Updates Regarding Compliance Activities, Measures and Progress**

Mr. Gabehart stated that due to weather constraints, Foth had decreased pumping leachate from gas wells in the southwest area of the landfill during the last month. He explained that the low temperatures made it difficult to prevent lines from freezing. He further explained that if the lines freeze, more issues would occur on the system resulting in increased costs to the Committee.

Mr. Gabehart stated that the flare was shutdown twice, due to a leak on the nitrogen system that operates a safety shutoff valve on the flare. When the valve actuator loses nitrogen pressure, the system automatically shuts off the gas supply to the flare as a failsafe mechanism to prevent landfill gas from entering the atmosphere. The system will return to normal operation once the nitrogen supply tank
is changed out and pressure had returned to the actuator. The leak was found following some troubleshooting and disassembly of the actuator, he said.

Mr. Gabehart said since the last Committee meeting, the other shutdown of the system occurred on December 13, 2013, and was caused by a frozen line on the North-South Sump that removes Leachate and Condensate from the gas system. He said the shutdown resulted from a rise of the liquid levels in the sump, which blocks the gas line with liquid causing the flare will shut down. This problem should be alleviated with the installation of heat trace and insulation on the exposed line at the sump.

Mr. Gabehart explained that the Southwest area of the landfill continued to have groundwater and gas impacts, due to landfill gas concentrations. He said these impacts were observed in G02S, G04S and GMD2. He explained that the increased leachate in the area causes the gas collection system to operate ineffectively, resulting in gas migration and subsequent exceedances at GMD2, along with trace levels of organic compounds in the groundwater monitoring wells, he explained. He said that Foth plans to submit an update to the IEPA on activities that have been undertaken, since the initial exceedance at GMD2. This update would also include the steps planned for this spring regarding the gas system improvements.

Mr. Gabehart stated that the subsurface gas migration and groundwater impacts would be addressed by an improvement to the gas collection system and leachate extraction system in 2014. He said the cost estimate for the work was approximately $230,000, which included engineering. He anticipated that the construction project would begin in April 2014 and, he said the IEPA had approved the preliminary plan. Once the system was operational, he said the groundwater and gas issues would be reduced.

Mr. Fox stated that he was encouraged to see this project moving forward. He stated that he realized that the Committee has some financial challenges; however, he encouraged Foth to keep the Committee abreast of any long term issues that need to be addressed.

Mr. Gabehart stated that 21,000 gallons of leachated had been disposed at the Greater Peoria Sanitary District. He said Foth would begin pumping more leachate in the coming months, as the weather improves.

Ms. Scott-Pearson moved to approve Foth's report, as outlined, including securing Mr. Bergsten's signature for permit applications; seconded by Mr. Van Winkle.

Approved by viva voce vote.

ITEM NO. 2  LANDFILL BUDGET AND FINANCIAL REPORT

Mr. Rogers gave a brief overview regarding the Landfill 12-month budget and budget balance. He said the cash balance for December was $236,727.

Ms. Scott-Pearson moved to receive and file the monthly report, as outlined; seconded by Mr. Van Winkle.

Approved by viva voce vote.
ITEM NO. 3: REQUEST FOR QUALIFICATIONS FOR ENGINEERING SERVICES

Director Rogers presented the draft RFQ. He stated that the RFQ would be advertised by February 12, 2014. He stated that the timeline for the RFQ was aggressive. He said the deadline for the RFQ would be March 5, 2014. He questioned if the Committee would consider appointing a subcommittee to review the RFQ's and submit the final candidate selection to the Committee for approval; however, he said this would need to be determined by the Committee. He said that criteria had been developed to evaluate the technical qualifications of each firm. He said he felt that innovative practices and cost savings measures were important and he felt that this would add to the organization. He said 10 proposals would be requested to allow each member of the Committee to have a copy of the RFQ.

In discussion with Mr. Fox regarding the ongoing leachate improvement projects and how it would be affected if a new engineering firm was selected; Mr. Rogers stated that this was a part of the existing contract with Foth. He explained that if a new firm was selected then Foth would provide that necessary information to the firm.

Mr. Rogers stated that it would be difficult to have continuity, if an RFQ needed to be prepared every year. He said that he would not recommend that the Committee complete this process every year; however, he suggested criteria be developed to address performance standard, which would then be the basis for extending the contract, which would be determined by the Committee. He said that he would develop some recommendations that could be used to evaluate the consultants.

Mr. Spain and Mr. Van Winkle stated that he agreed and supported Director Rogers suggestion to establish a subcommittee to review the RFQ's.

In discussion with Chairman Bergsten regarding the subcommittee, Mr. Giebelhausen stated the subcommittee should be limited to two (2) Landfill Committee members.

Mr. Van Winkle recommended that staff be involved in this process and he recommended that the Director Rogers be a part of the subcommittee.

Mr. Giebelhausen stated the subcommittee would consist of two members of the Landfill Committee and staff. Mr. Van Winkle and Mr. Fox would represent the Committee.

Mr. Van Winkle raised the issue of the employment of an individual with the technical knowledge of landfill operations to assist the subcommittee.

Chairman Bergsten directed Mr. Giebelhausen to look into the issue.

Mr. Fox moved to proceed with the Request for Qualifications and that a subcommittee be established which would include two (2) members from the Landfill Committee and staff representation; seconded by Mr. Van Winkle.

Approved by viva voce vote.
ITEM 4: REPORT FROM WASTE MANAGEMENT

A. MONTHLY ACTIVITY REPORT

Mr. Matheny gave a brief overview of the monthly summary report, profiled waste log and the year-over-year comparison chart for December 2013. He stated that all weekly random load checks were completed and documented with no issues to report.

B. PERMIT APPROVALS AS NEEDED

Mr. Matheny requested Mr. Bergsten's signature on the IEPA forms for a permit application addressing groundwater exceedances from the second quarter 2013 monitoring event, subject to review and approval in advance by Foth.

Mr. Matheny requested Mr. Bergsten's signature on IEPA permit application forms for additional items to be used as alternate daily cover, subject to review and approval in advance by Foth.

Mr. Matheny stated that he did not anticipate any other permit requests, but respectfully requested the Committee to allow administrative approval of permits for signature by City Designee; after review by Foth, should the need arise.

Mr. Matheny stated that the volumes were increased due to the storm debris from the tornado.

Mr. Erni stated that Waste Management would like to increase their list and include auto fluff and wood debris as it pertained to alternate daily cover. He said that he would provide an updated list at the next scheduled Committee meeting. He said that auto fluff was waste left over from shredding old cars for scrap metal. He said majority of the material from the storm debris would be suitable for use for building roads.

Mr. Fox stated that he preferred to see the list prior to approval.

Mr. Erni stated that auto fluff was the primary request and that he was gathering additional information to determine what type of materials would be available the service areas.

Mr. Fox moved to approve the auto shredder fluff; seconded by Mr. Van Winkle. Motioned failed.

Mr. Spain stated that he was not prepared to support this item and he felt that this item should be noted on the Agenda for the next scheduled meeting along with comments from Foth.

Mr. Spain moved to defer the item for one-month; seconded by Ms. Scott-Pearson.

Approved by viva voce vote

Mr. Fox moved to receive and file Waste Management's report, as outlined, including approving securing the necessary signatures for permit applications, after review by Foth; seconded by Ms. Scott-Pearson.

Approved viva voce vote.
ITEM NO. 5: REPORT FROM PEORIA DISPOSAL CO.

A. UPDATE ON COMMENTS RECEIVED FOR THE CITIZENS’ CONVENIENCE CENTER
B. UPDATE ON EXTENSION GIVEN TO THE IEPA GROUNDWATER SECTION FOR LANDFILL NO. 3

Mr. Couiter stated that PDC received 12 comments regarding the Citizens' Convenience Center; however, they have not received comments for the groundwater section. He said the Groundwater Section requested an extension through the end of February. He said the IEPA was granted an extension through June.

Mr. Van Winkle moved to approve the report from Peoria Disposal; seconded by Mr. Fox.

Approved by viva voce vote.

**ITEM NO. 6: APPROVAL OF PROPOSED SETTLEMENT OF ARBITRATION DISPUTE WITH WASTE MANAGEMENT

*The Committee concurred to discuss this later in an Executive Session. See further discussion on this item on Page 8.

UNFINISHED BUSINESS

- **SALE OF REAL ESTATE

*The Committee concurred to discuss this later in an Executive Session. See further discussion on this item on Page 8.

NEW BUSINESS

NONE.

NEXT MEETING

Chairman Bergsten stated the next regularly scheduled meeting would be held at 8:30 a.m. on Wednesday, February 19, 2014, at the Lester D. Bergsten Operations & Maintenance Facility, 3505 N. Dries Lane, Peoria, Illinois.

EXECUTIVE SESSION

REQUESTING APPROVAL OF A MOTION FOR THE PEORIA CITY/COUNTY LANDFILL COMMITTEE GO INTO EXECUTIVE SESSION TO DISCUSS 2(c)(11) LITIGATION, WHEN AN ACTION AGAINST, AFFECTING, OR ON BEHALF OF THE PARTICULAR PUBLIC BODY HAS BEEN FILED AND IS PENDING BEFORE A COURT OR ADMINISTRATIVE TRIBUNAL, OR WHEN THE PUBLIC BODY FINDS THAT SUCH AN ACTION IS PROBABLE OR IMMINENT.

Ms. Scott-Pearson moved to go into Executive Session to Discuss 2(c)(11) Litigation, and to return to Regular Session; seconded by Mr. Van Winkle.
Approved by viva voce vote.

The Landfill Committee went into Executive Session at 9:32 am.

**ITEM No. 5:** APPROVAL OF PROPOSED SETTLEMENT OF ARBITRATION DISPUTE WITH WASTE MANAGEMENT

The following Committee Members were physically present: Chairman Les Bergsten, Rick Fox, Lynn Scott-Pearson, Ryan Spain and Steve Van Winkle – 5. Absent: Timothy Riggenbach and Stephen Morris – 2.

City/County Staff present: Steve Giebelhausen, Janice Little, Karen Raithel, Mike Rogers, Scott Sorrell and Stephanie Stapleton.

Other interested parties: Joyce Blumenshine, Chris Coulter, Dan Erni, Josh Gabehart, Steve Harenburg, Curtis L. Hartog, Steve Matheny, Mike Wiersema, Attorneys Timothy Bertschy and Mike Hanson with Heyl Royster law firm, and Jerry Wyatt.

Mr. Spain moved to defer the Proposed Settlement of Arbitration Dispute with Waste Management for one month; seconded by Ms. Scott-Pearson.

Approved by viva voce vote.

Chairman Bergsten stated that this item would be placed on the agenda for the next scheduled Committee meeting.

**UNFINISHED BUSINESS**

* SALE OF REAL ESTATE

Mr. Spain moved to defer the discussion regarding the sale of real estate for one-month; seconded by Ms. Scott-Pearson.

Approved by viva voce vote.

**ADJOURNMENT**

There being no further discussion, Ms. Scott-Pearson moved to adjourn the Regular Meeting of the Landfill Committee; Mr. Spain seconded by.

Approved by viva voce vote.

The meeting adjourned at 10:16 a.m.

Lester D. Bergsten, Chairman

/ss
Peoria, Illinois, January 15, 2014, a Regular Meeting of the Peoria City/County Landfill Committee was held this date at 8:32 A.M., at the Lester D. Bergsten Operations & Maintenance Facility located at 3505 N. Dries Lane, Peoria, Illinois, with Chairman Lester D. Bergsten presiding.

ATTENDANCE

The following Committee Members were physically present: Chairman Les Bergsten, Rick Fox, Lynn Scott-Pearson, Ryan Spain (arrived at 8:35 a.m.) and Steve Van Winkle – 5. Absent: Timothy Riggenbach and Stephen Morris – 2.

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ANNOUNCEMENTS

NONE.

CITIZENS' OPPORTUNITY TO ADDRESS THE COMMITTEE

Chairman Bergsten opened the floor to any citizens who wished to address the Landfill Committee members. No one came forward to address the Committee.

MINUTES

Mr. Van Winkle moved to approve the minutes of the Regular Peoria City/County Landfill Committee Meeting held on December 4, 2013; seconded by Ms. Scott-Pearson.

Approved by viva voce vote.

AGENDA ITEMS

ITEM NO. 1. REPORT from FOTH INFRASTRUCTURE & ENVIRONMENT, LLC

A. SPECIAL WASTE APPROVALS AS NEEDED

Mr. Gabehart stated that there was one non-special waste stream permit for recertification for Midwest Generation that required Committee approval. He explained that this waste profile was previously approved by the Committee on February 12, 2009. As outlined in the “procedures for General Refuse and Special Waste Received at the City of Peoria/County of Peoria Landfill No. 2”, profiles need to be
recertified by the generator every five (5) years. Foth had no technical objections to this waste stream.
One pre-approval non-special waste permit for Midwest Generation Powerton Generating Station. No
action was required.

Mr. Van Winkle moved to approve the special waste stream permits; seconded by Mr. Spain.

Approved by viva voce vote.

B. PERMIT APPROVALS AS NEEDED

Mr. Gabehart stated that the following permit approvals required Mr. Bergsten’s signature: 1) PCC LF
No. 1 – Clean Air Act Permit Program (CAAPP) Semi-Annual Startup, Shutdown, and Malfunction Plan
(SSMP) Report; 2) PCC LF No. 1 – CAAPP Semi-Annual New Source Performance Standards (NSPS)
Report; 3) PCC LF No. 1 – Semi-Annual Pretreatment Report to Greater Peoria Sanitary District; and,
4) PCC LF No. 1 – Corrective Action Update Report for G02S and G04S.

Mr. Gabehart stated that he did not anticipate any other permit requests, but respectfully requested
approval to obtain Chairman Bergsten’s signature, should the need arise for any other permit or
notifications due prior to the next Committee meeting.

C. GATE AUDIT

Mr. Gabehart stated that the gate audit was performed to ensure all procedures and requirements for
special waste acceptance at the landfill were being met, which was part of the special waste
procedures. He said the gate audit was performed by Foth on December 13, 2013. He explained that
waste profiles were reviewed and found to be well organized and in order. He further explained that
load checking and random sample collections were taken care of at the active site; records were up-to-
date and located in the scale house building. He said that training and training records needed to be
updated and kept on file at the facility as specified in Section 2.4 of the “Procedures for General Refuse
and Special Waste Received” (rev Dec. 2011). According to Waste Management personnel, training
was current, he said.

Mr. Gabehart stated that were no significant issues or inconsistencies that were observed.

D. LANDFILL #1 – 4TH QUARTER 2013 GROUNDWATER UPDATE

Mr. Gabehart gave brief overview of the 4th Quarter 2013 Groundwater Update and summarized the 3rd
Quarter Monitoring results, including:

- **False Positives and AGQS Adjustments.** The two (2) observed increases from 3rd quarter for
dissolved chromium were not confirmed during 4th quarter resampling. The initial
concentrations were considered false positive errors and no further action was required. There
were 10 (ten) observed increases noted during the 4th quarter event; and, five (5) of the 10
were for the compound total phenolics. The other observed increases were for metals analysis
and one observed increase for oil (hexane –soluble or equivalent). All observed increases will
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addressed by the gas collection system and will be further addressed with the leachate
collection improvements.
- **Chloride.** Five (5) wells had dissolved chloride concentrations above the current permitted AGQS value. A permit modification to raise the AGQS value for dissolved chloride that was approved in Permit Modification No. 75, has been submitted with final action from the agency due on January 16, 2014. The data used to calculate the new dissolved chloride value was from 4 consecutive quarters of data beginning with 4th quarter 2012 – 3rd quarter 2013. Currently none of the groundwater wells have dissolved chloride concentrations above the proposed AGQS value. The new AGQS value should eliminate most of the false positive errors that have been associated with the lower chloride AGQS value. An assessment report was submitted for the required alternate source investigation for chloride at G06S which began in April. The last three (3) quarters the dissolved chloride concentration has been below the proposed dissolved chloride AGQS value and it was proposed that G06S return to routine detection monitoring. An assessment report for the dissolved chloride concentration at R10S was due to the agency on January 15, 2014. The current dissolved chloride concentration at R10S is below the proposed AGQS value.

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**D. Updates Regarding Compliance Activities, Measures & Progress**

Mr. Gabehart gave a brief update regarding the miscellaneous engineering items that had occurred since the last scheduled Committee meeting.

- **Financial Information**

  Mr. Gabehart pointed out that the approved Engineering services budget for 2013 was $295,000. He said the total expenses for 2013 was $289,969.68, which reflected a surplus of $5,030.32.

- **Updates Regarding Compliance Activities, Measures and Progress**

  Mr. Gabehart stated that due to weather constraints, Foth had decreased pumping leachate from gas wells in the southwest area of the landfill during the last month. He explained that the low temperatures made it difficult to prevent lines from freezing. He further explained that if the lines freeze, more issues would occur on the system resulting in increased costs to the Committee.

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Mr. Fox stated that he was encouraged to see this project moving forward. He stated that he realized that the Committee has some financial challenges; however, he encouraged Foth to keep the Committee abreast of any long term issues that need to be addressed.

Mr. Gabehart stated that 21,000 gallons of leachated had been disposed at the Greater Peoria Sanitary District. He said Foth would begin pumping more leachate in the coming months, as the weather improves.

Ms. Scott-Pearson moved to approve Foth’s report, as outlined, including securing Mr. Bergsten’s signature for permit applications; seconded by Mr. Van Winkle.

Approved by viva voce vote.

**ITEM NO. 2  LANDFILL BUDGET AND FINANCIAL REPORT**

Mr. Rogers gave a brief overview regarding the Landfill 12-month budget and budget balance. He said the cash balance for December was $236,727.

Ms. Scott-Pearson moved to receive and file the monthly report, as outlined; seconded by Mr. Van Winkle.

Approved by viva voce vote.
ITEM NO. 3: REQUEST FOR QUALIFICATIONS FOR ENGINEERING SERVICES

Director Rogers presented the draft RFQ. He stated that the RFQ would be advertised by February 12, 2014. He stated that the timeline for the RFQ was aggressive. He said the deadline for the RFQ would be March 5, 2014. He questioned if the Committee would consider appointing a subcommittee to review the RFQ’s and submit the final candidate selection to the Committee for approval; however, he said this would need to be determined by the Committee. He said that criteria had been developed to evaluate the technical qualifications of each firm. He said he felt that innovative practices and cost savings measures were important and he felt that this would add to the organization. He said 10 proposals would be requested to allow each member of the Committee to have a copy of the RFQ.

In discussion with Mr. Fox regarding the ongoing leachate improvement projects and how it would be affected if a new engineering firm was selected; Mr. Rogers stated that this was a part of the existing contract with Foth. He explained that if a new firm was selected then Foth would provide that necessary information to the firm.

Mr. Rogers stated that it would be difficult to have continuity, if an RFQ needed to be prepared every year. He said that he would not recommend that the Committee complete this process every year; however, he suggested criteria be developed to address performance standard, which would then be the basis for extending the contract, which would be determined by the Committee. He said that he would develop some recommendations that could be used to evaluate the consultants.

Mr. Spain and Mr. Van Winkle stated that he agreed and supported Director Rogers suggestion to establish a subcommittee to review the RFQ’s.

In discussion with Chairman Bergsten regarding the subcommittee, Mr. Giebelhausen stated the subcommittee should be limited to two (2) Landfill Committee members.

Mr. Van Winkle recommended that staff be involved in this process and he recommended that the Director Rogers be a part of the subcommittee.

Mr. Giebelhausen stated the subcommittee would consist of two members of the Landfill Committee and staff. Mr. Van Winkle and Mr. Fox would represent the Committee.

Mr. Van Winkle raised the issue of the employment of an individual with the technical knowledge of landfill operations to could assist the subcommittee.

Chairman Bergsten directed Mr. Giebelhausen to look into the issue.

Mr. Fox moved to proceed with the Request for Qualifications and that a subcommittee be established which would include two (2) members from the Landfill Committee and staff representation; seconded by Mr. Van Winkle.

Approved by viva voce vote.
ITEM 4: REPORT FROM WASTE MANAGEMENT

A. MONTHLY ACTIVITY REPORT

Mr. Matheny gave a brief overview of the monthly summary report, profiled waste log and the year-over-year comparison chart for December 2013. He stated that all weekly random load checks were completed and documented with no issues to report.

B. PERMIT APPROVALS AS NEEDED

Mr. Matheny requested Mr. Bergsten’s signature on the IEPA forms for a permit application addressing groundwater exceedances from the second quarter 2013 monitoring event, subject to review and approval in advance by Foth.

Mr. Matheny requested Mr. Bergsten’s signature on IEPA permit application forms for additional items to be used as alternate daily cover, subject to review and approval in advance by Foth.

Mr. Matheny stated that he did not anticipate any other permit requests, but respectfully requested the Committee to allow administrative approval of permits for signature by City Designee; after review by Foth, should the need arise.

Mr. Matheny stated that the volumes were increased due to the storm debris from the tornado.

Mr. Erni stated that Waste Management would like to increase their list and include auto fluff and wood debris as it pertained to alternate daily cover. He said that he would provide an updated list at the next scheduled Committee meeting. He said that auto fluff was waste left over from shredding old cars for scrap metal. He said majority of the material from the storm debris would be suitable for use for building roads.

Mr. Fox stated that he preferred to see the list prior to approval.

Mr. Erni stated that auto fluff was the primary request and that he was gathering additional information to determine what type of materials would be available the service areas.

Mr. Fox moved to approve the auto shredder fluff; seconded by Mr. Van Winkle. Motioned failed.

Mr. Spain stated that he was not prepared to support this item and he felt that this item should be noted on the Agenda for the next scheduled meeting along with comments from Foth.

Mr. Spain moved to defer the item for one-month; seconded by Ms. Scott-Pearson.

Approved by viva voce vote

Mr. Fox moved to receive and file Waste Management’s report, as outlined, including approving securing the necessary signatures for permit applications, after review by Foth; seconded by Ms. Scott-Pearson.

Approved viva voce vote.
ITEM NO. 5: REPORT FROM PEORIA DISPOSAL CO.

A. UPDATE ON COMMENTS RECEIVED FOR THE CITIZENS’ CONVENIENCE CENTER
B. UPDATE ON EXTENSION GIVEN TO THE IEPA GROUNDWATER SECTION FOR LANDFILL NO. 3

Mr. Coulter stated that PDC received 12 comments regarding the Citizens’ Convenience Center; however, they have not received comments for the groundwater section. He said the Groundwater Section requested an extension through the end of February. He said the IEPA was granted an extension through June.

Mr. Van Winkle moved to approve the report from Peoria Disposal; seconded by Mr. Fox.

Approved by viva voce vote.

**ITEM NO. 6: APPROVAL OF PROPOSED SETTLEMENT OF ARBITRATION DISPUTE WITH WASTE MANAGEMENT

*The Committee concurred to discuss this later in an Executive Session. See further discussion on this item on Page 8.

UNFINISHED BUSINESS

• **SALE OF REAL ESTATE

*The Committee concurred to discuss this later in an Executive Session. See further discussion on this item on Page 8.

NEW BUSINESS

NONE.

NEXT MEETING

Chairman Bergsten stated the next regularly scheduled meeting would be held at 8:30 a.m. on Wednesday, February 19, 2014, at the Lester D. Bergsten Operations & Maintenance Facility, 3505 N. Dries Lane, Peoria, Illinois.

EXECUTIVE SESSION

REQUESTING APPROVAL OF A MOTION FOR THE PEORIA CITY/COUNTY LANDFILL COMMITTEE GO INTO EXECUTIVE SESSION TO DISCUSS 2(c)(11) LITIGATION, WHEN AN ACTION AGAINST, AFFECTING, OR ON BEHALF OF THE PARTICULAR PUBLIC BODY HAS BEEN FILED AND IS PENDING BEFORE A COURT OR ADMINISTRATIVE TRIBUNAL, OR WHEN THE PUBLIC BODY FINDS THAT SUCH AN ACTION IS PROBABLE OR IMMINENT.

Ms. Scott-Pearson moved to go into Executive Session to Discuss 2(c)(11) Litigation, and to return to Regular Session; seconded by Mr. Van Winkle.
Approved by viva voce vote.

The Landfill Committee went into Executive Session at 9:32 am.

*ITEM NO. 5:  APPROVAL OF PROPOSED SETTLEMENT OF ARBITRATION DISPUTE WITH WASTE MANAGEMENT

The following Committee Members were physically present: Chairman Les Bergsten, Rick Fox, Lynn Scott-Pearson, Ryan Spain and Steve Van Winkle – 5. Absent: Timothy Riggenbach and Stephen Morris – 2.

City/County Staff present: Steve Giebelhausen, Janice Little, Karen Raithel, Mike Rogers, Scott Sorrell and Stephanie Stapleton.

Other interested parties: Joyce Blumenshine, Chris Coulter, Dan Erni, Josh Gabehart, Steve Harenburg, Curtis L. Hartog, Steve Matheny, Mike Wiersema, Attorneys Timothy Bertschy and Mike Hanson with Heyl Royster law firm, and Jerry Wyatt.

Mr. Spain moved to defer the Proposed Settlement of Arbitration Dispute with Waste Management for one month; seconded by Ms. Scott-Pearson.

Approved by viva voce vote.

Chairman Bergsten stated that this item would be placed on the agenda for the next scheduled Committee meeting.

UNFINISHED BUSINESS

*SALE OF REAL ESTATE

Mr. Spain moved to defer the discussion regarding the sale of real estate for one month; seconded by Ms. Scott-Pearson.

Approved by viva voce vote.

ADJOURNMENT

There being no further discussion, Ms. Scott-Pearson moved to adjourn the Regular Meeting of the Landfill Committee; Mr. Spain seconded by.

Approved by viva voce vote.

The meeting adjourned at 10:16 a.m.

Lester D. Bergsten, Chairman

/ss
REQUEST FOR DISCUSSION

To: Peoria City/County Landfill Committee Members
From: Josh Gabehart, PE, Foth

AGENDA DATE REQUESTED: February 7, 2014

ACTION REQUESTED: Action required: One (1) non-special waste permit for approval, and two (2) pre-approval non-special waste profiles to receive and file.

BACKGROUND: A memorandum is attached, which reviews the three (3) profiles.

FINANCIAL IMPACT: N/A
MEMORANDUM

TO: Joint City of Peoria - County of Peoria
    Solid Waste Disposal Facility Board

FROM: Mark Williams

DATE: February 07, 2014

NUMBER: 14P100.00

SUBJECT: Special Waste Permits

Waste Management has presented the following waste stream.

Profiles for Approval (Action is Necessary):

1.

| PMP Fermentation Products 900 NE Adams Peoria, IL 61603 | Resin / Anthracite |
| Application | Filter media, Ion exchange media |
| Dated: 02/04/2014 | Expected |
| Received: 02/05/2014 | Quantity = 5 tons. |
| Source: Peoria County Type: Non-Special Profile # 607942IL | Frequency = One-time |
| Subject to County Fee = yes Last Tested = |

Comments: This waste stream is certified by the generator as non-special waste based on MSDS sheets. Filter media was used to remove particulates from boiler feed water. Resin is from system which deionized a product (food) stream. After a review of MSDS sheets we have no technical objections to this waste stream. Action is required. Profile is attached.
Pre-Approved Waste Streams (No Action is Necessary)

- City of Peoria, Peoria, IL, Profile 608003IL, Asbestos Containing Material Policy.
- Michels Pipeline, Pekin, IL, Profile 609222IL, Petroleum Contaminated Soil or Debris Policy

The profiles are attached.

Notes:
Committee approval does not relieve the Generator and Landfill Operator from complying with all applicable laws and regulations.
EZ Profile™

Requested Facility: □ Yes □ No

A. GENERATOR INFORMATION (MATERIAL ORIGIN)
1. Generator Name: PMF FERMENTATION PRODUCTS
2. Site Address: 900 N. ADAMS ST.
   Peoria, IL 61604
3. City, State, ZIP: Peoria, IL 61604
4. Contact Name: BRIAN PEDERSON
5. Email: bpederson@pinginc.com
6. Phone: 309-635-7656 □ Fax: □
7. Generator EPA ID: □ N/A □
8. State: Illinois
9. Area: 0619

B. MATERIAL INFORMATION
1. Common Name: RESIN
   Describe Process Generating Material: □ See Attached
   Filter media, Ion Exchange media

2. Material Composition and Characteristics:
   □ See Attached
   1. Psuedo Resin (Brown): 557.0 lbs
   2. Activated Resin: 257.0 lbs
   3. Accessories/Gravel: 27.0 lbs
   4. □ N/A □

3. Directional Waste Codes: □ N/A
4. Color: Amber - Black
5. Physical State: Solid - Liquid □ Other:
6. Free Liquid Range Percentage: 0% to 100% N/A (Solid)
7. pH: N/A (Solid)
8. Strong Odor: □ Yes □ No Describe:
9. Flash Point: □ <140°F □ 140°F - 199°F □ ≥200°F □ N/A (Solid)

C. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION
1. Analytical attached: □ Yes □
   Please identify applicable samples and/or lab reports:

2. Other information attached (such as MSDS)? □ Yes □

D. REGULATORY INFORMATION
1. Emission Hazardous Waste?
   □ Yes □ No
2. State Hazardous Waste?
   □ Yes □ No
3. Excluded waste under 40 CFR 261.4 (a) or (b)? □ Yes □ No
4. Contains Underlying Hazardous Constituents? □ Yes □ No
5. Contains benzene and subject to benzene NESHP? □ Yes □ No
6. Facility remediation subject to 40 CFR 60 GGGGGG? □ Yes □ No
7. CERCLA or State-mandated clean-up? □ Yes □ No
8. NRC or State-regulated radioactive or NORM waste? □ Yes □ No
9. States dangerous or hazardous property? □ Yes □ No
10. Description and/or Untreated
    Medical/Infectious Waste? □ Yes □ No
11. Contains Asbestos? □ Yes □ Non-Asbestos □ No

E. SHIPPING AND UTILITY INFORMATION
1. □ One-Time Event □ Repeat Event/Ongoing Business
2. Estimated Quantity/Unit of Measure: □ TONS □ YARDS □ DRUMS □ BARRELS □ OTHER

F. Container Type and Size: □ SUPER SACKS □ DRUMS

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)
By signing the EZ Profile™ form, I certify that all information is accurate to the best of my knowledge, and all attached documents contain true and accurate descriptions of the material, and that all relevant information necessary for proper material characterization and to identify active and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 – Appendix 1 or by using an equivalent method. All changes occurring in the material must be disclosed by the Generator and be shared with Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): BRIAN PEDERSON Date: 2/14/11
Title: Engineering Manager
Company: PMF Fermentation Products

Certification Signature: BRIAN K. PEDERSON

THINK GREEN: QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

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List Revised June 6, 2017
Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

C. MATERIAL INFORMATION
Describe Process Generating Material (Continued from page 1): If more space is needed, please attach additional pages.

The filter mode (membrane) is from a filter which removed particulates from boiler feed water.
The resin is from a system which deionized a product (food) stream.

Material Composition and Contaminants (Continued from page 1): If more space is needed, please attach additional pages.

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<td>10.</td>
<td>≥100%</td>
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D. REGULATORY INFORMATION
Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste
   a. Please list all USEPA listed and characteristic waste code numbers:

   b. Is the material subject to the Alternative Debris standards (40 CFR 268.43)?
      □ Yes □ No

   c. Is the material subject to the Alternative Soil standards (40 CFR 268.41)?
      □ Yes □ No

   d. Is the material exempt from Subpart C Controls (40 CFR 268.1083 and 268.1084)?
      □ Yes □ No

   → If Yes, please select one of the following:
      □ Waste has been determined to be LDR exempt (268.1083(c)(4) and 268.1084(c)(4)) based on the fact that it meets all applicable organic treatment standards (including UHCs for D-coded characteristic wastes) or a specified technology has been utilized.
      □ Waste does not qualify for a LDR exemption, but the average VOC at the point of origination is <500 ppmv and this determination was based on analytical testing (upload copy of analysis or generator knowledge).

2. State Hazardous Waste → Please list all state waste codes:

3. Excluded Waste → Please select which of the following categories apply to your material:
   □ Delisted Hazardous Waste
   □ Excluded Waste under 40 CFR 261.4 → Specify Exclusion:
   □ Treated Hazardous Waste Debris
   □ Treated Characteristic Hazardous Waste → If checked, complete question 4.

4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:

5. Benzene NESHAP → Please include benzene concentration and percent water/moisture in chemical composition.
   a. Are you a TSD? → If yes, please complete Benzene NESHAP questionnaire. If not, continue:
      □ Yes □ No

   b. What is your facility's current total annual benzene quantity in Megagrams?
      □ <1 Mg □ 1 - 9.99 Mg □ ≥10 Mg

   c. Is this waste soil from remediation at a closed facility?
      □ Yes □ No

   d. Has material been treated to remove 90% of the benzene or to achieve <10 ppmv?
      □ Yes □ No

   e. Is material exempt from controls in accordance with 40 CFR 51.342?
      □ Yes □ No

   → If yes, specify exemption:

   f. Based on your knowledge of your waste and the BWON regulations, do you believe this waste stream is subject to treatment and control requirements at an on-site TSD?
      □ Yes □ No

6. 40 CFR 63 GGGGG → Does the material contain <500 ppmv VOCs at the point of determination?
   □ Yes □ No

7. CERCLA or State Mandated clean up → Please submit the Record of Decision or other documentation to assist others in the evaluation for proper disposal.

8. NRC or state regulated radioactive or NONM Waste → Please identify isotopes and pCi/g:

THINK GREEN!

QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

Last Revised June 6, 2012
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Profile Addendum: State of Illinois
GENERATOR'S NON-SPECIAL WASTE CERTIFICATION

I. Additional Waste Stream Information

Profile Number: __________________________

Generators Name: PAMP FERMENTATION PRODUCTS, INC.

Generators SITE Address: 900 NE ADAMS ST. PEORIA, IL 61603
(The location where the waste is generated)

Waste Name: RESIN

The Illinois Environmental Protection Act allows a Generator to certify that their pollution control waste or industrial process waste, is not an Illinois Special Waste (Section 3.45). By completing the following questionnaire, you may certify that the waste stream represented by the Waste Management Profile referenced above is not an Illinois Special Waste as defined in the Act.

Is the waste referenced above any of the following:

1. A Potentially Infectious Medical Waste (PIMW)? ☐ Yes ☑ No
2. A Hazardous Waste as defined in 40 CFR 261 or in 35 IAC 722.111? ☐ Yes ☑ No
3. A Liquid Waste (fails the paint filter test, as defined in 35 IAC 811.107)? ☐ Yes ☑ No
4. A regulated PCB waste as defined in 40 CFR 761? ☐ Yes ☑ No
5. A NESHAP regulated asbestos waste other than waste from renovation or demolition? ☐ Yes ☑ No
6. A waste resulting from the shredding recyclable metals (auto fluff)? ☐ Yes ☑ No
7. A delimited Hazardous Waste or Treated Characteristic Hazardous Waste, subject to LDR requirements under 35 IAC 728.107? ☐ Yes ☑ No

In determining that this waste is not a liquid, I have used knowledge of the processes generating the waste and the attached supporting documentation: ☑ MSDS ☐ Analytical ☐ Other (explain below):

In determining that this waste is not RCRA hazardous, I have used knowledge of the processes generating the waste and the attached supporting documentation: ☑ MSDS ☐ Analytical ☐ Other (explain below):

8. Is the waste represented by this profile sheet subject to the Illinois Solid Waste Management Act fee? ☑ Yes ☐ No

By signing below, I certify my waste is NOT an Illinois Special Waste, and that I understand that a person who knowingly and falsely certifies that a waste is not special waste is subject to the penalties set forth in subdivision (c) of subsection (h) of section 44 of the Illinois Environmental Protection Act.

Name: (Print) BRIAN PEDERSON

Signature: ______________________________________

Title: ENGINEERING MANAGER

Date: 2/5/2014
MATERIAL SAFETY DATA SHEET

Anthracite Filter Media

Section 01 - Chemical And Product And Company Information

Product Identifier .................................. Anthracite Coal

Product Use ........................................ Filter media

Supplier Name ..................................... ClearTech Industries Inc.
2302 Hanselman Avenue
Saskatoon, SK, Canada
S7L 523

Prepared By ......................................... ClearTech Industries Inc. Technical Department
Phone: (306)864-2522

Preparation Date .................................. April 13, 2010

24-Hour Emergency Phone.................. 306-864-2522

Section 02 - Composition / Information on Ingredients

Hazardous Ingredients ....................... Anthracite Coal 100%

CAS Number .................................. Anthracite Coal 8029-10-5

Synonym (s) .................................. Coal

Section 03 - Hazard Identification

Inhalation ........................................... Dust may cause upper respiratory tract irritation.

Skin Contact / Absorption .............. Not anticipated to cause a significant hazard.

Eye Contact .................................... Dust may cause mechanical eye irritation.

Ingestion .......................................... Not anticipated to cause a significant hazard.
Exposure Limits:  
OGHA-PLH: 2.4ppm  
ACGIH-TLV: 2.0ppm

Coal consists of a complex mixture of organic compounds. It is recommended that the air be analyzed for crystalline silica where inhalation exposures to this product may occur. Should the collected dust contain greater than 5% crystalline silica, it may be appropriate to use the applicable exposure limit for silica.

**Section 04 - First Aid Measures**

**Inhalation.** Not usually a hazard under normal use conditions. If breathing problems arise, remove victim to fresh air.

**Skin Contact/Absorption.** Remove contaminated clothing and wash affected area with soap and water.

**Eye Contact.** Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek medical attention if irritation persists.

**Ingestion.** Do not induce vomiting. Not toxic by ingestion. If large amounts have been ingested, seek medical attention.

**Additional Information.** None

**Section 05 - Fire Fighting**

**Conditions of Flammability.** Non-combustible under normal circumstances. Anthracite has a very high ignition temperature. Moderate hazard in the form of dust if exposed to flame or heat.

**Means of Extinction.** Use water, dry chemical or carbon dioxide to extinguish the fire.

**Flash Point.** Not applicable

**Auto-ignition Temperature.** Not applicable

**Upper Flammable Limit.** Not applicable

**Lower Flammable Limit.** Not applicable
Hazardous Combustible Products: Carbon dioxide, oxides of sulphur and nitrogen.

Special Fire Fighting Procedures: Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Explosion Hazards: Slight hazard in the form of dust if exposed to flame or heat.

---

**Section 06 - Accidental Release Measures**

Leak / Spill: Wear appropriate personal protective equipment. Ventilate area and avoid raising up dust. Sweep up solids and place in appropriate sealed container for disposal. Prevent material from entering sewers.

Deactivating Materials: None

---

**Section 07 - Handling and Storage**

Handling Procedures: Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

Storage Requirements: Store in a cool, dry, well-ventilated place. Keep container tightly closed, and away from heat, ignition sources and incompatible materials.

---

**Section 08 - Personal Protection and Exposure Controls**

Protective Equipment

Eyes: Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Respiratory: Respiratory protection is not normally required. If use creates dust formations, then a NIOSH-approved respirator with a dust cartridge is recommended.

Gloves: Gloves should be worn if dust levels are excessive. Wash contaminated clothing and dry thoroughly before reuse.

Clothing: Coveralls or long-sleeved clothing should be worn if dust levels are excessive. Wash contaminated clothing and dry thoroughly before reuse.

Footwear: No special footwear is required other than what is mandated at place of work.
Engineering Controls

Ventilation Requirements. Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other. Emergency shower and eyewash should be in close proximity.

Section 09 - Physical and Chemical Properties

Physical State. Solid
Odor and Appearance. Black odourless lumps, granules or coarse powder
Odor Threshold. Not applicable
Specific Gravity (Water=1). 1.60-1.80
Vapor Pressure (mm Hg, 20C). Not available
Vapor Density (Air=1). Not available
Evaporation Rate. Not available
Boiling Point. Not available
Freeze/Melting Point. Not available
pH. Not available
Water/Oil Distribution Coefficient. Not available
Bulk Density. Not available
% Volatiles by Volume. Not available
Solubility in Water. Insoluble
Molecular Formula. C
Molecular Weight. 12

Section 10 - Stability and Reactivity

Stability. Product is stable
Incompatibility. Oxidizing materials
Hazardous Products of Decomposition... Carbon monoxide, carbon dioxide, oxides of sulphur, hydrogen sulfide.

Polymerization... Will not occur

Section 11 - Toxicological Information

Irritancy... Inhalation during use may have minor effects (coughing, sneezing).

Sensitization... Not available

Chronic/Acute Effects... Excessive, long-term inhalation exposure to coal dust may lead to a condition called workers' pneumoconiosis (or "Black Lung"). This condition may be characterized by or associated with a cough, shortness of breath, reduction in pulmonary function, pulmonary hypertension, bronchitis, emphysema and premature death. It primarily occurs among employees in the coal mining industry where chronic exposures to coal and associated hard rock are common.

Synergistic Materials... Not available

Animal Toxicity Data... Not available

Carcinogenicity... Not available

Reproductive Toxicity... Not available

Teratogenicity... Not available

Mutagenicity... Not available

Section 12 - Ecological Information

Fish Toxicity... No unusual hazards to fish, plants or birds.

Biodegradability... Not available

Environmental Effects... Not available

Section 13 - Disposal Consideration

Waste Disposal... Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
Section 14 - Transportation Information

TDG Classification
Class: Not regulated
Group: Not regulated
PIN Number: Not regulated
Other: Secure containers (full and/or empty) with suitable hold down devices during shipment.

Section 15 - Regulatory Information

WHMIS Classification: Not a controlled product

NOTE: THE PRODUCT LISTED ON THIS MSDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 - Other Information

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / MSDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Material Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service or technical service department.
ClearTech Industries Inc. - Locations

Corporate Head Office: 2302 Hanselman Avenue, Saskatoon, SK, S7L 5Z3
Phone: 306-664-2522  
Fax: 306-665-6216

www.ClearTech.ca

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<th>Postal Code</th>
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<th>Fax Number</th>
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<td>12431 Horseshoe Way</td>
<td>V7A 4X6</td>
<td>604-272-4000</td>
<td>604-272-4595</td>
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<td>Calgary, AB.</td>
<td>5516E - 40th St, S.E.</td>
<td>T2C 2A1</td>
<td>403-279-1096</td>
<td>403-236-0889</td>
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<td>Edmonton, AB.</td>
<td>11750 - 180th Street</td>
<td>T5S 1N7</td>
<td>780-452-8000</td>
<td>780-452-4600</td>
</tr>
<tr>
<td>Saskatoon, SK.</td>
<td>2302 Hanselman Avenue</td>
<td>S7L 5Z3</td>
<td>306-933-0177</td>
<td>306-933-3262</td>
</tr>
<tr>
<td>Regina, SK.</td>
<td>555 Henderson Drive</td>
<td>S4R 5X2</td>
<td>306-721-7737</td>
<td>306-721-8611</td>
</tr>
<tr>
<td>Winnipeg, MB.</td>
<td>345 Saulteaux Crescent</td>
<td>R3J 3T2</td>
<td>204-987-9777</td>
<td>204-987-9770</td>
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<tr>
<td>Mississauga, ON.</td>
<td>7460 Bath Road</td>
<td>L4T 1L2</td>
<td>905-612-0588</td>
<td>905-612-0576</td>
</tr>
</tbody>
</table>

24 Hour Emergency Number - All Locations - 306-664-2522
Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

AMBERLITE(TM) FPA84 Resin/BASE BULK

Supplier: Rohm and Haas Company
100 Independence Mall West
Philadelphia, PA 19106-2369 United States of America

For non-emergency information contact: 215-592-3000

Emergency telephone:
Spill Emergency: 215-592-3000
Health Emergency: 215-592-3000
Chemtrec: 800-424-3300

Revision date: 10/27/2008

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modified sec-, tert-amine phenol/formaldehyde</td>
<td>Not Hazardous</td>
<td>35.0 - 40.0%</td>
</tr>
<tr>
<td>copolymer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>60.0 - 85.0%</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Emergency Overview
Appearance
Form: Beads
Colour: Gray to brown

Hazard Summary
CAUTION!
MAY CAUSE EYE/SKIN IRRITATION.

Potential Health Effects
Primary Routes of Entry: Skin contact, Eye contact

Eyes: Direct contact with material can cause the following:
slight irritation
Skin: Prolonged or repeated skin contact can cause the following:
slight irritation

4. FIRST AID MEASURES

Skin contact: Wash off with soap and water. If skin irritation persists, call a physician.
Eye contact: Rinse with plenty of water. If eye irritation persists, consult a specialist.

5. FIRE-FIGHTING MEASURES

Flash point: not applicable
Lower explosion limit: not applicable
Upper explosion limit: not applicable


6/1/2009
Suitable extinguishing media: Use the following extinguishing media when fighting fires involving this material:
- Water spray
- Carbon dioxide (CO2)
- Foam
- Dry chemical

Specific hazards during fire fighting: Toxic fumes are generated when material is exposed to fire or fire conditions. Cool closed containers exposed to fire with water spray.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Further information: Remain upwind. Avoid breathing smoke.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**
Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations.
If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

**Methods for cleaning up**
- Keep spectators away.
- Floor may be slippery; use care to avoid falling.
- Transfer spilled material to suitable containers for recovery or disposal.

### 7. HANDLING AND STORAGE

**Handling**
NOTE: This product as supplied is a whole bead resin and may produce slight eye irritation. However, the ground form of this resin should be treated as a severe eye irritant. Worker exposure to ground resins can be controlled with local exhaust ventilation at the point of dust generation, or use of suitable personal protective equipment (dust/mist air-purifying respirator and safety goggles). Avoid repeated freeze-thaw cycles; beads may fracture. If frozen, thaw at room temperature. Properly designed equipment is vital if these resins are to be used in conjunction with strong oxidizing agents such as nitric acid to prevent a rapid build-up of pressure and possible explosion. Consult a source knowledgeable in the handling of these materials before proceeding.

**Storage**
Further information:
CAUTION: Do not pack column with dry ion exchange resins. Dry beads expand when wetted; this expansion can cause glass column to shatter.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits**
Exposure limits are listed below, if they exist.

**Eye protection:** Use safety glasses with side shields (ANSI Z87.1 or approved equivalent).

**Hand protection:** Cotton or canvas gloves.

**Respiratory protection:** No personal respiratory protective equipment normally required.

**Protective measures:** Facilities storing or utilizing this material should be equipped with an eyewash facility.

**Engineering measures:** None required under normal operating conditions.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**
- **Form:** Beads
- **Colour:** Gray to brown
- **pH:** 7.0 - 8.0
- **Boiling point/boiling range:** Not applicable
- **Flash point:** Not applicable
- **Lower explosion limit:** Not applicable
- **Upper explosion limit:** Not applicable
- **Relative vapour density:** Not applicable
- **Water solubility:** Practically insoluble
10. STABILITY AND REACTIVITY

Hazardous reactions: Stable under normal conditions.

Materials to avoid: Avoid contact with the following: Strong Oxidizers, Nitric acid

Hazardous decomposition products: Thermal decomposition may yield the following: , monomer vapors ,

Polymerization: Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

No data are available for this material. The information shown is based on profiles of compositionally similar materials.

Acute oral toxicity: LD50 rat >5,000 mg/kg
Acute dermal toxicity: LD50 rabbit >5,000 mg/kg

12. ECOLOGICAL INFORMATION

Limited effects are expected from exposure of the environmental compartments by insoluble plastic beads of large diameter (300 to 1200 microns).

13. DISPOSAL CONSIDERATIONS

Disposal: Waste Classification: When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP). Unused material may be incinerated or landfilled in facilities meeting local, state, and federal regulations. (See 40 CFR 268).

Contaminated packaging: Empty containers should be taken to local recyclers for disposal. Refer to applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

DOT: Not regulated for transport

IMO/IMDG: Not regulated (Not dangerous for transport)

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

15. REGULATORY INFORMATION

Workplace Classification: This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200).

This product is not a controlled product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA TITLE III: Section 311/312 Categorizations (40CFR370): This product is not a hazardous chemical.

under 28CFR 1910.1200, and therefore is not covered by Title III of SARA.
SARA TITLE III:Section 313 Information (40CFR372)
This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.
CERCLAInformation(40CFR302.4)
Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.
US. Toxic Substances Control Act (TSCA): All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
Pennsylvania
Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Hazard Rating</th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Legend
- ACGIH: American Conference of Governmental Industrial Hygienists
- BAc: Butyl acetate
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible Exposure Limit
- STEL: Short Term Exposure Limit (STEL):
- TLV: Threshold Limit Value
- TWA: Time Weighted Average (TWA):
- 1: Bar denotes a revision from prior MSDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Version: 1.1
Print Date: 10/29/2008
1. PRODUCT AND COMPANY IDENTIFICATION

AMBERLITE (TM) SF120 Na

Supplier: Rohm and Haas Company
100 Independence Mall West
Philadelphia, PA 19106-2399 United States of America

Revision date: 04/06/2004

For non-emergency information contact: 215-592-3000

Emergency telephone number
Spill Emergency: 215-592-3000
Health Emergency: 215-592-3000
Chemtrec: 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfonated divinylbenzene/styrene copolymer, Na ion form</td>
<td>63162-08-1</td>
<td>47.0 - 51.0 %</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>39.0 - 53.0 %</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance
Form: Beads
Colour: amber

Hazard Summary
CAUTION!
MAY CAUSE EYE/SKIN IRRITATION.

Potential Health Effects

Primary Routes of Entry:
- Skin contact
- Eye contact

Eyes: Direct contact with material can cause the following:
slight irritation
Skin: Prolonged or repeated skin contact can cause the following:
slight irritation

4. FIRST AID MEASURES

Skin contact: Wash off with soap and water. If skin irritation persists, call a physician.

Eye contact: Rinse with plenty of water. If eye irritation persists, consult a specialist.

5. FIRE-FIGHTING MEASURES

| Flash point | not applicable |
| Ignition temperature | 500.0 °C (932.00 °F) |
| Lower explosion limit | not applicable |
| Upper explosion limit | not applicable |

Suitable extinguishing media:

- Use the following extinguishing media when fighting fires involving this material:
  - water spray
  - carbon dioxide (CO2)
  - foam
  - dry chemical

Specific hazards during fire fighting: Toxic fumes are generated when material is exposed to fire or fire conditions. Cool closed containers exposed to fire with water spray.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Remain upwind. Avoid breathing smoke.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations.

If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

Methods for cleaning up

Keep spectators away.

Floor may be slippery; use care to avoid falling.

Transfer spilled material to suitable containers for recovery or disposal.
7. HANDLING AND STORAGE

Handling
NOTE: This product as supplied is a whole bead resin and may produce slight eye irritation. However, the ground form of this resin should be treated as a severe eye irritant. Worker exposure to ground resins can be controlled with local exhaust ventilation at the point of dust generation, or use of suitable personal protective equipment (dust/mist air-purifying respirator and safety goggles). Avoid repeated freeze-thaw cycles; beads may fracture. If frozen, thaw at room temperature.

Storage
Further information:
CAUTION: Do not pack column with dry ion exchange resins. Dry beads expand when wetted; this expansion can cause glass column to shatter.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)
Exposure limits are listed below, if they exist.

Eye protection: Use safety glasses with side shields (ANSI Z87.1 or approved equivalent).

Hand protection: Cotton or canvas gloves.

Respiratory protection: No personal respiratory protective equipment normally required.

Protective measures: Facilities storing or utilizing this material should be equipped with an eyewash facility.

Engineering measures: None required under normal operating conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Beads</td>
</tr>
<tr>
<td>Form</td>
<td>Beads</td>
</tr>
<tr>
<td>Colour</td>
<td>amber</td>
</tr>
<tr>
<td>pH</td>
<td>7.0 - 9.0 Aqueous slurry</td>
</tr>
<tr>
<td>Boiling point/Range</td>
<td>100 °C (212.00 °F) water</td>
</tr>
<tr>
<td>Melting point/Range</td>
<td>0 °C (32 °F) water</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>500 °C (932.00 °F)</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>17.0 mmHg at 20 °C (68.00 °F) water</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>&lt;1.6 water</td>
</tr>
<tr>
<td>Water solubility</td>
<td>insoluble</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.25 - 1.32</td>
</tr>
</tbody>
</table>
Viscosity, dynamic: not applicable
Evaporation rate: <1.00 water
Percent volatility: 39 - 53 %

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Hazardous reactions: Stable under normal conditions.

Materials to avoid: Avoid contact with the following: Strong Oxidizers

Hazardous decomposition products: Thermal decomposition may yield the following: monomer vapors,

11. TOXICOLOGICAL INFORMATION

No data are available for this material. The information shown is based on profiles of compositionally similar materials.

Acute oral toxicity: LD50 rat >5,000 mg/kg

Acute dermal toxicity: LD50 rabbit >5,000 mg/kg

12. ECOLOGICAL INFORMATION

Limited effects are expected from exposure of the environmental compartments by insoluble plastic beads of large diameter (300 to 1200 microns).

13. DISPOSAL CONSIDERATIONS

Disposal
Waste Classification: When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of Ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

Unused material may be incinerated or landfilled in facilities meeting local, state, and federal regulations.

Contaminated packaging: Empty containers should be taken to local recyclers for disposal. Refer to applicable federal, state, and local regulations.

Page 4 of 6
Revision date: 04/06/2004
14. TRANSPORT INFORMATION

DOT

Not regulated for transport

IMO/IMDG

Not regulated (Not dangerous for transport)

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

15. REGULATORY INFORMATION

Workplace Classification
This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200).

This product is not a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA TITLE III: Section 311/312 Categorizations (40CFR370): This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

SARA TITLE III: Section 313 Information (40CFR372)
This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

CERCLA Information (40CFR302.4)
Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

US. Toxic Substances Control Act (TSCA) All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Pennsylvania
Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Hazard Rating</th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Page 5 of 6
Revision date 04/06/2004
## Legend

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>BAc</td>
<td>Butyl acetate</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>STEL</td>
<td>Short Term Exposure Limit (STEL):</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>TWA</td>
<td>Time Weighted Average (TWA):</td>
</tr>
<tr>
<td>l</td>
<td>Bar denotes a revision from prior MSDS.</td>
</tr>
</tbody>
</table>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Version: 1.1
Print Date: 06/03/2004
Generator Name: City of People
Site Address: 939 S. Helen Street
City, State, ZIP: People, IL 61605
County: People
Contact Name: James Kosner
Email: jimax.kosner@ymail.com
Phone: 630-319-2477
Fax: 630-319-2477
Generator EPA ID: N/A
State ID: N/A

1. Common Name: Non-Friable Asbestos
   Describe Process Generating Material: See Attached
   Demolition/renovation - when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure, including gaskets, resilient floor coverings and asphalt sealing products (specify in C.2.) Does not include clean-up waste, such as debris, grinding dust, or other

2. Material Composition and Contaminants: See Attached
   1. Non-Friable Asbestos (Untainted) 0-100 %

3. State Waste Codes: N/A
4. Color: Various
5. Physical State at 70°F: Solid Liquid Other:
6. Free Liquid Range Percentage: N/A (Solid)
7. pH: N/A (Solid)
8. Strong Odor: Yes No Describe:
9. Flash Point: <140°F 140° - 189°F > 200° N/A (Solid)

1. Analytical attached Yes
   Please identify applicable samples and/or lab reports:

2. Other information attached (such as MSDS)? Yes

The undersigned, James Kosner, Operator, certify that all information submitted in this and all attached documents is true and correct. All signatures of the Individual, as the generator for the waste described above, and all the information necessary for proper regulation and discharge of the waste, as the site of generation, the nature, and composition of each waste, have been provided. Any analysis data submitted shall be certified by the generator. All data and information shall be used for regulatory purposes and to ensure the proper and compliant discharge of the waste.

Jame Kosner
Owner

1. Yes One-Time Event
2. Yes Re-Use/Recovery Not Specified
3. Yes Yes Yes
4. Yes Yes Yes
5. Yes Yes Yes
6. Yes Yes Yes
7. Yes Yes Yes
8. Yes Yes Yes
9. Yes Yes Yes
10. Yes Yes Yes
11. Yes Yes Yes
12. Yes Yes Yes
13. Yes Yes Yes
14. Yes Yes Yes

Certification Signature
STATE OF ILLINOIS DEMOLITION/RENOVATION/ASBESTOS PROJECT NOTIFICATION FORM

Environmental Protection Agency (EPA): Projects of at least 160 sq. ft. or 260 linear ft., or 1 cubic yard of all demolition projects shall be submitted to EPA. This form shall be submitted for all original notifications and revisions to EPA ($180). (Attach Illinois E-Pay receipt if paid electronically.)

Illinois Department of Public Health (IDPH): Abatement projects greater than 120 sq. ft. or 260 linear ft. and all school projects shall be submitted to IDPH. This form shall be submitted for all original notifications and revisions to IDPH (no fee).

Date: 1/18/2014

TYPE OF NOTIFICATION: □ original □ demolition □ renovation □ cancellation □ revision □ ordered demolition □ annual

Check Type of Project Below: (Check all that apply)
□ Frangible School Project □ Non-Frangible School Floor/Tile Project □ Commercial Public Building (Frangible & Non-Frangible)

Revised by: □ Contractor □ Owner □ Project Designer □ Name: □ Date: □ City: □ Section (s) being revised: □

1. FACILITY INFORMATION:

Location of Asbestos Containing Material (ACM) in Structure:

Building Site: 7000 Sq. Ft. □ State: IL □ Zip: 60602 □ Present Use: NONE □

Contact: CITY OF PECORA □ Phone: □

2. FACILITY OWNER OR SCHOOL DISTRICT:

Facility Owner Name: CITY OF PECORA □ Address: 419 BLOOM ST □

City: PECORA □ State: IL □ Zip: 60602 Contact: JOSEPH ZULL □ Phone: □

3. ASBESTOS CONTRACTOR NAME: MFD ENVIRONMENTAL □ ID#: □

Address: 1125 W. ALTORRE OR City: PECORA □ State: IL □ Zip: 60602 Contact: CLINT KYBER □ Phone: 815-692-6760 □

4. DEMOLITION CONTRACTOR NAME: JIMAX □

Address: 7801 VAUX HALL PL □ City: PECORA □ State: IL □ Zip: 60602 Contact: JAMES ASNER □ Phone: 815-319-2477 □

5. ABATEMENT INFORMATION:

Is Asbestos Present? □ Yes □ No

Description of Planned Demolition or Renovation Work and Methods to be Employed Including Demolition or Renovation Techniques:

6. Quantities:

<table>
<thead>
<tr>
<th>Regulated Asbestos Material to be removed (RACMA)</th>
<th>Non-frangible asbestos not to be removed (demolition)</th>
<th>Non-frangible asbestos to be removed</th>
<th>TOTAL ASBESTOS TO BE REMOVED</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT I □ CAT II □</td>
<td>CAT I □ CAT II □</td>
<td>CAT I □ CAT II □</td>
<td>CAT I □ CAT II □</td>
</tr>
</tbody>
</table>

Tip: CAT I non-frangible ACM are asbestos-containing resilient floor coverings (vinyl asbestos tile (VAT)), asbestos roofing products, paneling and gaskets. All other non-frangible ACM are considered CAT II non-frangible ACM. (RACMA) is (a) non-frangible material, (b) Category I non-frangible ACM that has become frangible, (c) Category II non-frangible ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (d) Category II non-frangible ACM that has the source of dust or fibers removed.

7. ABATEMENT START DATE:

AND/OR DEMOLITION START DATE: 1/21/2014 □ Finish Date: 2/1/2014 □ Work hours: 8 AM □ PM □

AM □ PM □ Working Weekends: □ Yes □ No Working Holiday: □ Yes □ No

Tip: Ten-day notification required at minimum, ten (10) working days (Monday-Friday excluding holidays) prior to the commencement date. Ten days' notice is required for all original notification or application received. If EPA, City of Chicago, and Cook County cannot accept faxed copies, however, IDPH must accept faxed submissions. Phased projects will not be accepted.
STATE OF ILLINOIS DEMOLITION/RENOVATION/ASBESTOS PROJECT NOTIFICATION FORM

Environmental Protection Agency (EPA): Projects of at least 160 sq./ft. or 260 linear ft., or 1 cubic meter and all demolition projects shall be submitted to ISPA. This form shall be submitted for all original notifications and revisions to ISPA ($169). Attach Illinois E-Pay receipt if paid electronically.

Illinois Department of Public Health (IDPH): Abatement projects greater than 3 sq./ft. and or 3 linear ft. up to 160 sq. ft or 260 linear feet and all school projects shall be submitted to IDPH. This form shall be submitted for all original notifications and revisions to IDPH (no fee).

Cook County (excluding the City of Chicago): All projects in Cook County must notify Cook County Environmental Control & EPA if applicable. This form and appropriate fee shall be submitted for all original notifications and revisions to Cook County ($295). A Cook County Renotification Form must be used to cancel or amend asbestos permit.

City of Chicago: All projects in the City of Chicago, except residential renovations in buildings with less than two dwelling units, must notify the City & ISPA if applicable. This form and appropriate fee shall be submitted for all notifications to the City of Chicago (see bottom pg 2 for fee amount).

Copies of this form may be found at: www.lanconnect.com/enviro

 Illinois E-Pay Authorization Code (EPA Only):

Date: 11/17/2014

TYPE OF NOTIFICATION: ☑ original ☑ demolition ☑ renovation ☑ cancellation ☑ revision ☑ ordered demolition ☑ annual

Check Type of Project Below: (Check all that apply)
☐ Facility School Project ☐ Non-Finishable School Floor Tile Project ☐ Commercial Public Building (Rizable & Non-Rizable)

Revised by: ☐ Contractor ☐ Owner ☐ Project Designer ☐ Other (if necessary): Use Section 4 if being revised:

1. FACILITY INFORMATION:

Facility name: School Bldg ID:

Location of Asbestos Containing Material (ACM) in Structure:

Bldy Size: 700 Sq.Ft. I Flrs: 1 I Age: NONE I Present Use:

Future Use (if name) DEMOLITION

Address: 939 Hjellen St I City: Peoria I County: Peoria I Zip: 61605

Contact: CITY OF PEORIA I FEMA PLEN I Phone:

2. FACILITY OWNER OR SCHOOL DISTRICT:

Facility Owner Name: CITY OF PEORIA I Address: 1114 Eulton St

City: Peoria I State: IL I Zip: 61605 I Phone:

Copy of abatement permit and written notification for all building occupants and users shall be submitted to IDPH public and private school facilities as required by Section 895.5200 of the IDPH Asbestos Code.

3. ASBESTOS CONTRACTOR NAME: M&D ENVIRONMENTAL I Site: 500-0681

Address: 1625 W. 118th Pkwy I City: Peoria I State: IL I Zip: 61605

Contact: CLINT TYREE I Phone: 309-647-2200

4. DEMOLITION CONTRACTOR NAME: JIMAX

Address: 7001 Vaux St, Peoria I City: Peoria I State: IL I Zip: 61615

Contact: JAMES KOSER I Phone: 309-349-2411

5. ABATEMENT INFORMATION:

Is Asbestos Present? ☐ Yes ☐ No

Description of Planned Demolition or Renovation Work and Methods to be Employed including Demolition or Renovation Techniques:

Unlicensed BL TIME 11:00 AM UNTIL 5:00 PM ON SITE ON DOWNS

Description of Work Practice(s) and Engineering Controls used to Prevent Emissions at the Demolition or Renovation Site:

6. Quantities:

Regulated Asbestos Containing Material to be removed (RACM) I Non-Racible asbestos to be removed (CAT 1) I Non-Racible asbestos to be removed (CAT 2) I TOTAL ASBESTOS TO BE REMOVED:

Pipes (in. FL):

Buried Area (Sq. Fl.):

Volume (cu. Fl.):

Yes: CAT 1 non-racible ACM are asbestos-containing resilient floor coverings (vinyl asbestos tile (VAT), asphalt roofing products, piping and gaskets. All other non-racible ACM are considered CAT II non-racible ACM. (RACM) is (a) asbestos cement material, (b) Category I non-racible ACM that has become friable, (c) Category II non-racible ACM that will be or has been subjected to cutting, grinding, cutting or abrading, or (d) Category II non-racible ACM that has a high probability of becoming or has become friable, pulverized or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

7. ABATEMENT START DATE:

Finish Date: 1/11/2014 I Work hours: ☑ AM ☐ PM ☐ AM ☐ PM

AND/OR DEMOLITION START DATE: 1/7/2014 I Work hours: ☑ AM ☐ PM ☐ AM ☐ PM

Working Weekends: ☐ Yes ☐ No I Working Evenings: ☐ Yes ☐ No

Tips: Ten day notification requires at minimum, ten (10) working days (Monday-Friday including holidays) prior to the commencement date. Ten days begin with the US postmark date or date received in office by commercial service or hand delivery. EPA, City of Chicago, and Cook County cannot accept faxed copies, however, IDPH will accept faxed submission. Phased projects will not be accepted.
Requestor/Shipper: People City - County #2 Landfill

A. GENERATOR INFORMATION (MATERIAL ORIGIN)
1. Generator Name: Michels Pipeline
2. Site Address: 300 N. Hanna Drive
(City, State, Zip): Peoria IL 61604
3. County: Tazewell
4. Contact Name: Mike Golumbek
5. Email: mgolumbek@michilds.us
6. Phone: (309) 696-8118
7. Fax:
8. Generator EPA ID:
9. State ID:

C. MATERIAL INFORMATION
1. Common Name: Petroleum Contaminated Dudley and Soil
Describe Process Generating Material:
Clean up of diesel and hydraulic oil spills at site. Collected and stored in 55 gallon drums.
2. Material Composition and Contaminants:
1. Soil 85%
2. Clean up Debris 7%
3. Hydraulic Oil 1%
4. Hazardous Oil 1%
Total composition must be equal to or greater than 100% ≥100%
3. State Waste Code(s): N/A
4. Color: Blackish Brown
5. Physical State at 70°F: Solid
6. Free Liquid Range Percentage: 0% N/A
7. pH:
8. Strong Odor: Yes
9. Flash Point: 410°F
10. Regulated and/or Unregulated Medical/Infectious Waste?
11. Contains Asbestos?

B. BILLING INFORMATION
1. Billing Name: Michels Pipeline
2. Billing Address: 300 N. Hanna Drive
(City, State, Zip): Peoria IL 61604
3. Contact Name: Mike Golumbek
4. Email: mgolumbek@michilds.us
5. Phone: (309) 696-8118
6. Fax:
7. WM Hauled?: Yes
8. PO Number:
9. Payment Method: Credit Card

D. REGULATORY INFORMATION
1. EPA Hazardous Waste Code:
2. State Hazardous Waste Code:
3. Is this material non-hazardous due to Treatment, Detoxification, or an Exclusion?
4. Contains Underlying Hazardous Constituents?
5. Contains bacteria and subject to Become NESHAP?
6. Facility remediation subject to 40 CFR 264.60 GGGGSS
7. CERCLA or State 心-remediated clean-up?
8. NRC or State-regulated radioactive or NORM waste?

9. Certifies PCBs?
10. Certified and/or Unregulated Medical/Infectious Waste?

E. SHIPMENT AND SHIPPER INFORMATION
1. One-Time Event
2. Estimated Quantity/Unit of Measure: 10
3. Container Type and Size: Roll-off

F. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)
By signing this EZ Profile form, I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this material, and that information necessary for proper material characterization and for ensuring human and environmental safety has been provided. Any analysis done prior to submission was derived from a sample that is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All changes occurring in this process or within analytes measured in this profile will be identified by the generator and be identified to Waste Management prior to providing the material to Waste Management.

Name (Print): Ryan Deno
Title: Project Manager
Company: Michels Pipeline
Date: 01/13/2014

THINK GREEN!

Certification Signature

Questions? Call 800-833-4770 For Assistance

Revised October 28, 2013
©2013 Waste Management, Inc.
Profile Number: 5B92C2IL.

Generators Name: Michele Pilouine

Generators SITE Address: 300 N. Havana Drive
(The location where the waste is generated)

Waste Name: Petroleum Contaminated Debake and Soil

The Illinois Environmental Protection Act allows a Generator to certify that their pollution control waste or industrial process waste, is not an Illinois Special Waste (Section 3.48). By completing the following questionnaire, you may certify that the waste stream represented by the Waste Management Profile referenced above is not an Illinois Special Waste as defined in the Act.

Is the waste referenced above any of the following:

1. A Potentially Infectious Medical Waste (PIMW)?  ☑ Yes ☑ No

2. A Hazardous Waste as defined in 40 CFR 261 or in 35 TAC 722.111?  ☑ Yes ☑ No

3. A Liquid Waste (fails the point source test as defined in 35 TAC 811.107)?  ☑ Yes ☑ No

4. A regulated PCB waste as defined in 40 CFR 761?  ☑ Yes ☑ No

5. A NESHAP regulated asbestos waste other than waste from renovation or demolition?  ☑ Yes ☑ No

6. A waste resulting from the shredding recyclable metals (auto fluff)?  ☑ Yes ☑ No

7. A detailed Hazardous Waste or Treated Characteristic Hazardous Waste, subject to LDR requirements under 35 TAC 728.107?  ☑ Yes ☑ No

In determining that this waste is not a liquid, I have used knowledge of the processes generating the waste and the attached supporting documentation: ☑ MSDS ☑ Analytical. ☐ Other (explain below):

In determining that this waste is not RCRA hazardous, I have used knowledge of the processes generating the waste and the attached supporting documentation: ☑ MSDS ☑ Analytical. ☐ Other (explain below):

Is the waste represented by this profile sheet subject to the Illinois Solid Waste Management Act fee?  ☑ Yes ☑ No

By signing below, I certify my waste is NOT an Illinois Special Waste, and that I understand that a person who knowingly and falsely certifies that a waste is not special waste is subject to the penalties set forth in subdivision (5) of subsection (h) of section 44 of the Illinois Environmental Protection Act.

Name (Print): BRIAN DEHN

Signature: [Signature]

Title: Preparer - November 2013

Date: 12/14
duct and company identification

*duct name* DIESEL FUEL NO. 2

*DB #* 11166

*IE* 11166

*dose use* Fuel

*erms* Ultra Low Sulfur No. 2 Amoco Premier Diesel Fuel, Ultra Low Sulfur No. 2 Amoco Premier Diesel Fuel – Winterized, Ultra Low Sulfur No. 2 BP Supreme Diesel, Low Sulfur No. 2 BP Diesel Fuel, Ultra Low Sulfur No. 2 BP Diesel Fuel, Ultra Low Sulfur No. 2 BP Diesel Fuel – Winterized

*spiller* BP Products North America Inc.
150 West Waterside Road
Naperville, Illinois 60563-6460

*USA*

*Emergency HEALTH ORMAIATION*:
1 (800) 447-8736
Outside the US: +1 703-527-3887 (CHEMTREC)

*Emergency SPILL ORMAIATION*:
1 (800) 424-6300 CHEMTREC (USA)

*US product ORMAIATION*
1 (865) 4 BP - MSDS
(866-427-6737 Toll Free - North America)
email: bpcares@bp.com

Hazards Identification

*state* Liquid

*Color* Colorless to Various Colors. (May be dyed Red, Light Green, Yellow.)

*emergency overview* WARNING!

COMBUSTIBLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF SWALLOWED. ASPIRATION HAZARD. HARMFUL OR FATAL IF LIQUID IS ASPIRATED INTO LUNGS. MAY CAUSE RESPIRATORY TRACT IRRITATION. INHALATION CAUSES HEADACHES, DIZZINESS, DROWNING, AND NAUSEA, AND MAY LEAD TO UNCONSCIOUSNESS.

Combustible liquid. Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. If ingested, do not induce vomiting. Avoid contact with eyes, skin and clothing. Contains methanol which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

*route of entry* Dermal contact. Eye contact. Inhalation. Ingestion.

*material health effects* Slightly irritating to the eyes.

*pms* Prolonged or repeated contact can irritate the skin and lead to irritation and/or dermatitis.

*irritation* May cause respiratory tract irritation. Inhalation causes headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. See toxicological information (section 11).

<table>
<thead>
<tr>
<th>Name: DIESEL FUEL NO. 2</th>
<th>Product Code: 11166</th>
</tr>
</thead>
<tbody>
<tr>
<td>version: 2</td>
<td>Date of Issue: 07/20/2010</td>
</tr>
<tr>
<td>Format: US-COMP</td>
<td>Language: ENGLISH</td>
</tr>
<tr>
<td></td>
<td>(US-COMP)</td>
</tr>
</tbody>
</table>
### Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diesel fuel (Diesel Fuel No. 2)</td>
<td>38476-34-6</td>
<td>95 - 100</td>
</tr>
<tr>
<td>Naphtha</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oils and fatty acids</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soybean oil, me ester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sunflower oil, Me esters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triglycerides of vegetable oils, Me esters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Palm oil, me ester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Castor oil, Me esters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tallow, Me esters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Also contains</td>
<td>91-20-3</td>
<td>1 - 3</td>
</tr>
</tbody>
</table>

### First aid measures

**Eye contact**: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

**Inhalation**: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Ingestion**: Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### Fire-fighting measures

**Hazard of the product**: Combustible liquid.

**Auto-ignition temperature**: 257°C (494°F)

**Flash point**: Closed cup: >38°C (>100°F) [Perkins-Martens]

**Explosion limits**: Lower: 0.0%  Upper: 7.6%

**Fire/Explosion hazards**: Combustible liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas and cause a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

**Unusual fire/Explosion hazards**: Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

**Extinguishing media**: In case of fire, use water fog, foam, dry chemicals, or carbon dioxide.

**Not suitable**: Do not use water jet.

**Fire-fighting procedures**: Promptly isolate the area by removing all persons from the vicinity of the incident if there is a fire. No action must be taken involving any personnel risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Hazardous combustion products**: Carbon dioxide (CO2) (carbide monoxide, carbon dioxide)

**Protective clothing (fire)**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Diesel Fuel No. 2</th>
<th>Product code</th>
<th>1155</th>
<th>Page: 2/6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>2</td>
<td>Date of issue</td>
<td>07/20/2010</td>
<td>Format</td>
</tr>
<tr>
<td>Language</td>
<td>ENGLISH</td>
<td>(US-COMP)</td>
<td>(ENGLISH)</td>
<td></td>
</tr>
</tbody>
</table>
Occidental release measures

Personal precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil of air).

Sosial protection in case of a large spill

Chemical splash goggles. Chemical-resistant protective suit. Boots. Chemical-resistant gloves. Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Suggested protective clothing might not be adequate. Consult a specialist before handling this product. CAUTION: The protection provided by air-purifying respirator is limited. Use a positive pressure air-supplied respirator if there is any potential for an uncontrolled release. If exposure levels are not known, or if concentrations exceed the protection limits of air-purifying respirator.

Steps for cleaning up

Large spill

Stop leak if without risk. Eliminate all ignition sources. Move containers from spill area. Approach release form upward. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an efficient treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, sawd, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill

Stop leak if without risk. Eliminate all ignition sources. Move containers from spill area. Absorb with an inert material and place in an approved waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

Handling and storage

Casting

Do not ingest. Never sniff by mouth. If ingested, do not induce vomiting. Put on appropriate personal protective equipment (see section 8). Washers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not inhale vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, disperse static electricity during transfer by grounding and bonding containers and equipment before transferring material.

Storage

Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10). Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unmarked containers. Use appropriate containment to avoid environmental contamination.

Exposure controls/personal protection

Occupational exposure limits


gasoline

ACGIH TLV (United States), Absorbed through skin.
TWA: 100 mg/m³ (measured as total hydrocarbons) 8 hour(s), issued/Revised: 1/2002 Form: Total hydrocarbons

ACGIH TLV (United States), STEL: 75 mg/m³ 15 minute(s), issued/Revised: 1/1996
STEL: 18 ppm 15 minute(s), issued/Revised: 1/1988
TWA: 50 mg/m³ 8 hour(s), issued/Revised: 1/1996
TWA: 10 ppm 8 hour(s), issued/Revised: 5/1993
OSHA PEI (United States), TWA: 60 mg/m³ 8 hour(s), issued/Revised: 6/1988

Product code 11155
Version 2 Date of issue 07/20/2010.
Format US-COMP Language ENGLISH
site specific OELs for certain components may be known in an area, those components may not be produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Personal protective equipment may enforce more stringent exposure limits.

**Respiratory**
- Use only with adequate ventilation. Use general exhaust vents, local exhaust ventilation or other engineering controls to keep workers exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also used to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
- Avoid contact with skin and clothing. Wear suitable protective clothing.
- Use only with adequate ventilation. Do not breathe vapor or mist. If ventilation is inadequate, use a NIOSH-certified respiratory with an organic vapor cartridge and P95 particulate filter.

CAUTION: The protection provided by air-purifying respirators is limited. Use a positive pressure air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are not known, or if concentrations exceed the protection limits of air-purifying respirator.

**Hands**
- Wear gloves that cannot be penetrated by chemicals or oil.
- The correct choice of protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the glove (even the best chemically resistant glove will break down after repeated chemical exposure). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Consult your supervisor or Standard Operating Procedure (S.O.P) for special handling instructions.

---

### 1. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical state</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Colorless to Various Colors, (may be dyed Red, Light Green, Yellow)</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Petroleum</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Closed cup: &gt;58°C (&gt;100°F) [Panaly-Matene]</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
<td>Lower: 0.0%</td>
</tr>
<tr>
<td></td>
<td>Upper: 7.5%</td>
</tr>
<tr>
<td><strong>Ignition point</strong></td>
<td>257°C (495°F)</td>
</tr>
<tr>
<td><strong>Specific gravity</strong></td>
<td>&lt;1 [Water = 1]</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>820 to 875 kg/m³ (0.032 to 0.076 g/cm³)</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Kinematic: 1.7 to 4.1 mm²/s (1.7 to 4.1 cSt) at 40°C</td>
</tr>
<tr>
<td><strong>Solubility</strong></td>
<td>negligible &lt;0.1%</td>
</tr>
</tbody>
</table>

---

### 10. Stability and reactivity

**Stability and reactivity**
- Stable under recommended storage and handling conditions (see section 7).

**Possibility of hazardous reactions**
- Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid**
- Keep away from heat, sparks and flame. Avoid all possible sources of ignition (spark or flame).

**Incompatibility with other substances**
- Reactive or incompatible with the following materials: oxidizing materials, acids and alcohols, halogenated compounds.

---

**Product name**: DIESEL FUEL NO. 2  
**Product code**: 11455  
**Version**: 07/20/2010  
**Language**: ENGLISH  
**Format**: US-COMP  
**Page**: 48
various polymers/merization Under normal conditions of storage and use, hazardous polymerization will not occur.

Toxicological Information

Acute

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>naphthalene</td>
<td>2B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I, diesel no. 2</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

IC:  
- Possible carcinogen to human.  
Not classifiable as a human carcinogen.

P:  
- Reasonably anticipated to be human carcinogens.  

1st Toxicity Data  
Aspiration of this product into the lungs can cause chemical pneumonitis and can be fatal.  
Aspiration into the lungs can occur while vomiting after ingestion of this product. Do not siphon by mouth.

Urine of distilled: From skin-painting studies of petroleum distillates of similar composition and distillate range, it has been shown that these types of materials often possess weak carcinogenic activity in laboratory animals. In these tests, the material is painted on the shaved backs of mice twice a week for their lifetime. The material is not washed off between applications. Therefore, there may be a potential risk of skin cancer from prolonged or repeated skin contact with this product in the absence of good personal hygiene. This particular product has not been tested for carcinogenic activity, but we have chosen to be cautious in light of the findings with other distillate streams.

Occasional skin contact with this product is not expected to have serious effects, but good personal hygiene should be practiced and repeated skin contact avoided. This product can also be expected to produce skin irritation upon prolonged or repeated skin contact. Personal hygiene measures taken to prevent skin irritation are expected to be adequate to prevent risk of skin cancer.

Diesel exhaust particulates have been classified by the National Toxicological Program (NTP) to be a reasonably anticipated human carcinogen. Exposure should be minimized to reduce potential risk.

Naphthalene has been reported to cause developmental toxicity in mice after oral exposure to relatively high dose levels, but developmental toxicity was not observed in NTP (National Toxicology Program) sponsored studies in rats and rabbits. Ingestion or inhalation of naphthalene can result in hemolysis and other blood abnormalities, and individuals (and infants) deficient in glutathione-S-transferase dehydrogenase may be especially susceptible to these effects. Inhalation of naphthalene may cause headache and nausea. Airborne exposure can result in eye irritation. Naphthalene exposure has been associated with casts in animals and humans.

Teratogenicity  
Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

2. Ecological Information

Toxicity  
Testing has been performed by the manufacturer.

Spillages may penetrate the soil causing ground water contamination.

This product is not expected to bioaccumulate through food chains in the environment.
3. Disposal Considerations

Waste Information

The generation of waste should be avoided or minimized wherever possible. Empty containers or their may retain some product residues. This material and its container must be disposed of in a safe way. Disposal of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should be in accordance with the requirements of environmental protection and waste disposal legislation and any regional/local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

NOTE: The generator of waste has the responsibility for proper waste identification (based on characteristic(s) or listing), transportation and disposal.

14. Transport Information

 transporter transport regulations

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Class</th>
<th>Packing group</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Classification</td>
<td>NA 1993</td>
<td>Diesel fuel</td>
<td>3</td>
<td>III</td>
<td></td>
</tr>
<tr>
<td>TDG Classification</td>
<td>UN 1202</td>
<td>Gas oil</td>
<td>3</td>
<td>III</td>
<td></td>
</tr>
<tr>
<td>IMDG Classification</td>
<td>UN 1202</td>
<td>Gas oil</td>
<td>3</td>
<td>III</td>
<td>Regulations: Marine pollutant</td>
</tr>
<tr>
<td>IATA/ICAO Classification</td>
<td>UN 1202</td>
<td>Gas oil</td>
<td>3</td>
<td>III</td>
<td>Regulations: Environmentally hazardous substance mask.</td>
</tr>
</tbody>
</table>

15. Regulatory Information

B. Federal Regulations

United States Inventory

(TSCA 6(b))

All components are listed or exempted.

TSCA 12(b) one time export: Naphthalene

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Naphthalene

SARA 311/312 HSESD distribution - chemical inventory - hazard identification: DIESEL FUEL NO. 2: Fire hazard, immediate (acute) health hazard, Delayed (chronic) health hazard

SARA 313

<table>
<thead>
<tr>
<th>Product name</th>
<th>CAS number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>1.0005 - 3.0111</td>
</tr>
</tbody>
</table>

Supplier notification

Naphthalene

91-20-3

1.0005 - 3.0111

CERCLA Sections

122a/109 Hazardous Substances (49 CFR Part 395.49)

CERCLA: Hazardous substances: n-Xylene: 1000 lbs. (454 kg); Naphthalene: 100 lbs. (45.4 kg); benzene/diethylbenzene: 1 lb. (0.454 kg); Ethylbenzene: 1000 lbs. (454 kg); xylene: 100 lbs. (45.4 kg); Cumene: 5000 lbs. (2270 kg); Phenol: 1000 lbs. (454 kg); Benzenes: 10 lbs. (4.54 kg); Alkylation sulfonic acid: 1000 lbs. (454 kg); Toluene: 1000 lbs. (454 kg); Methanol: 5000 lbs. (2270 kg); 2-Butoxyethanol

State regulations

Product name: DIESEL FUEL NO. 2

Product code: 11155

Version 2 Date of issue: 07/20/2010.

Format: US COMP

Language: ENGLISH

(US COMP) (ENGLISH)
The following components are listed: DIESEL FUEL; #2 HEATING OIL; NAPHTHALENE; MOTH FLAKES

The following components are listed: NAPHTHALENE

WARNING: This product contains a chemical known to the State of California to cause cancer.
Naphthalene; Biphenylenes; benzofluoranthene

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Toluene

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.
Benzene

Prop 65 chemicals will result under certain conditions from the use of this material. For example, burning fuels produces combustion products including diesel exhaust, a Prop 65 carcinogen, and carbon monoxide, a Prop 65 reproductive toxin.

Authorities

Canada Inventory
Not determined.

Europe Inventory
At least one component is not listed.

Australia Inventory (AICS)
At least one component is not listed.

China Inventory (EINECS)
Not determined.

Japan Inventory (CNS)
At least one component is not listed.

Korea Inventory (KICG)
At least one component is not listed.

Philippines Inventory (PICCS)
At least one component is not listed.

Other Information

...elements

WARNING:

COMBUSTIBLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FLASH FIRE.
HARMFUL IF SWALLOWED.
ASPIRATION HAZARD.
HARMFUL OR FATAL IF LIQUID IS ASPIRATED INTO LUNGS.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
INHALATION CAUSES HEADACHES, DIZZINESS, DROWSINESS, AND NAUSEA, AND MAY LEAD TO UNCONSCIOUSNESS.

US&G Rating:

Health 1
Flammability 2
Physical 6
Hazard X
Personal protection

Issued 07/20/2010.
Issued date of previous issue 07/22/2010.
Prepared by Product Stewardship

License to reader

Product code 11155
Page 778

11528

Format US-COMP
Language ENGLISH

(US-COMP)
The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user’s obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.
1. Product and company identification

Product name: DIESEL FUEL NO. 1
MSDS #: 11154
Code: 11154
Product use: Fuel.
Synonyms: Ultra Low Sulfur No. 1 Diesel Fuel, Low Sulfur No. 1 Diesel Fuel, Amoco Diesel Fuel No. 1
Supplier: BP Products North America Inc.
150 West Warranville Road
Naperville, Illinois 60563-8460
USA

EMERGENCY HEALTH INFORMATION: 1 (800) 447-8735
Outside the US: +1 703-527-3887 (CHEMTREC)

EMERGENCY SPILL INFORMATION: 1 (800) 424-6300 CHEMTREC (USA)

OTHER PRODUCT INFORMATION: 1 (888) 4 BP - MSDS
(866-427-6737 Toll Free - North America)
email: bpcares@bp.com

2. Hazards identification

Physical state: Liquid.
Color: Colorless. To various colors. (May be dyed Red, Light Green, Yellow.)
Emergency overview: WARNING!

COMBUSTIBLE LIQUID AND VAPOR.
VAPOR MAY CAUSE FLASH FIRE.
HARMFUL IF SWALLOWED.
ASPIRATION HAZARD.
HARMFUL OR FATAL IF LIQUID IS ASPIRATED INTO LUNGS.
CAUSES SKIN IRRITATION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
INHALATION CAUSES HEADACHES, DIZZINESS, DROWSINESS, AND NAUSEA, AND MAY LEAD TO UNCONSCIOUSNESS.

Combustible liquid. Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. If ingested, do not induce vomiting. Avoid contact with eyes, skin and clothing. Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Routes of entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential health effects:

Eyes: Slightly irritating to the eyes.
Skin: Cause skin irritation.
Inhalation: May cause respiratory tract irritation. Inhalation causes headaches, dizziness, drowsiness, and nausea, and may lead to unconsciousness. See toxicological information (section 11);
Ingestion: Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. See toxicological information (section 11)
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>GAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates</td>
<td>8008-20-6</td>
<td>95 - 100</td>
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<tr>
<td>Contains one or more of the following biodiesels:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>soybean oil, me-ester</td>
<td>67784-80-9</td>
<td>0 - 5</td>
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<tr>
<td>Fatty acids, sunflower-oil, Me esters</td>
<td>68919-54-0</td>
<td></td>
</tr>
<tr>
<td>Fatty acide methyl esters</td>
<td>67762-38-3</td>
<td></td>
</tr>
<tr>
<td>Fatty acids, vegetable-oil, Methyl esters</td>
<td>68800-62-3</td>
<td></td>
</tr>
<tr>
<td>rape oil, me ester</td>
<td>73881-89-3</td>
<td></td>
</tr>
<tr>
<td>Fatty acids, canola-oil, Me esters</td>
<td>128628-16-6</td>
<td></td>
</tr>
<tr>
<td>fatty acids, tallow, me esters</td>
<td>61745-61-2</td>
<td></td>
</tr>
<tr>
<td>Contains:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>1 - 3</td>
</tr>
<tr>
<td>May also contain small quantities of proprietary performance additives.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. First aid measures

**Eye contact**: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Clean shoes thoroughly before reuse. Wash contaminated clothing before reuse. Get medical attention if irritation develops.

**Inhalation**: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Ingestion**: Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire-fighting measures

**Flammability of the product**: Combustible liquid.

**Auto-ignition temperature**: 210°C (410°F)

**Flash point**: Closed cup: >38°C (>100.4°F) [Pensky-Martens.]

**Explosion limits**: Lower: 0.8%  
Upper: 7.5%

**Fire/explosion hazards**: Combustible liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

**Unusual fire/explosion hazards**: Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

**Extinguishing media**

**Suitable**: In case of fire, use water fog, foam, dry chemistry, or carbon dioxide.

**Not suitable**: Do not use water jet.

**Fire-fighting procedures**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Hazardous combustion products**: Combustion products may include the following: carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

**Protective clothing (fire)**: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Special remarks on fire hazards**: Do not use water jet.
6. Accidental release measures

Environmental precautions
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Personal protection in case of a large spill
Chemical splash goggles. Chemical-resistant protective suit. Boots. Chemical-resistant gloves. Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Suggested protective clothing might not be adequate. Consult a specialist before handling this product. CAUTION: The protection provided by air-purifying respirators is limited. Use a positive pressure air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are not known, or if concentrations exceed the protection limits of air-purifying respirator.

Methods for cleaning up

Large spill
Stop leak if without risk. Eliminate all ignition sources. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill
Stop leak if without risk. Eliminate all ignition sources. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Handling
Do not ingest. Never siphon by mouth. If ingested, do not induce vomiting. Put on appropriate personal protective equipment (see section 8). Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

Storage
Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10). Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Occupational exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates</td>
<td>ACGIH TLV (United States). Absorbed through skin.</td>
</tr>
<tr>
<td></td>
<td>TWA: 200 mg/m³ 8 hour(s). issued/Revised: 1/2003</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>ACGIH TLV (United States).</td>
</tr>
<tr>
<td></td>
<td>STEL: 79 mg/m³ 15 minute(s). issued/Revised: 5/1996</td>
</tr>
<tr>
<td></td>
<td>STEL: 15 ppm 15 minute(s). issued/Revised: 5/1996</td>
</tr>
<tr>
<td></td>
<td>TWA: 52 mg/m³ 8 hour(s). issued/Revised: 5/1996</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 ppm 8 hour(s). issued/Revised: 5/1996</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (United States).</td>
</tr>
<tr>
<td></td>
<td>TWA: 60 mg/m³ 8 hour(s). issued/Revised: 6/1993</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 ppm 8 hour(s). issued/Revised: 6/1993</td>
</tr>
</tbody>
</table>

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only. Some states may enforce more stringent exposure limits.
Control Measures
Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Personal protection

Eyes
Avoid contact with eyes. Wear safety glasses with side shields.

Skin and body
Avoid contact with skin and clothing. Wear suitable protective clothing.

Respiratory
Use adequate ventilation. Do not breathe vapor or mist. If ventilation is inadequate, use a NIOSH-certified respirator with an organic vapor cartridge and P85 particulate filter.

CAUTION: The protection provided by air-purifying respirators is limited. Use a positive pressure air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are not known, or if concentrations exceed the protection limits of air-purifying respirator.

Hands
Wear gloves that cannot be penetrated by chemicals or oil.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical expo- sures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Consult your supervisor or Standard Operating Procedure (S.O.P) for special handling instructions.

9. Physical and chemical properties

Physical state
Liquid.

Color
Colorless, to Various colors. (May be dyed Red., Light Green., Yellow.)

Odor
Petroleum

Flash point
Closed cup: >38°C (>100.4°F) [Penetrometer.]

Explosion limits
Lower: 0.6%
Upper: 7.5%

Auto-ignition temperature
210°C (410°F)

Specific gravity
<1 [Water = 1]

Density
815 to 840 kg/m³ (0.815 to 0.84 g/cm³)

Viscosity
Kinematic: 1.3 to 2.4 mm²/s (1.3 to 2.4 cSt) at 40°C

10. Stability and reactivity

Stability and reactivity
Stable under recommended storage and handling conditions (see section 7).

Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid
Keep away from heat, sparks and flame. Avoid all possible sources of ignition (spark or flame).

Incompatibility with various substances
Reactive or incompatible with the following materials: oxidizing materials, acids and alkalies, halogenated compounds.

Hazardous decomposition products
Carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

Hazardous polymerization
Under normal conditions of storage and use, hazardous polymerization will not occur.
11. Toxicological information

Acute toxicity

Classification

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene</td>
<td>2B</td>
<td>Possible</td>
<td>-</td>
</tr>
</tbody>
</table>

IARC: Possible carcinogen to human.

NTP: Reasonable possibility of carcinogenic activity.

Other information

Aspiration of this product into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this product. Do not aphon by mouth.

Middle distillate: From skin-painting studies of petroleum distillates of similar composition and distillate range, it has been shown that these types of materials often possess weak carcinogenic activity in laboratory animals. In these tests, the material is painted on the shaved backs of mice twice a week for their lifetime. The material is not washed off between applications. Therefore, there may be a potential risk of skin cancer from prolonged or repeated skin contact with this product in the absence of good personal hygiene. This product has not been tested for carcinogenic activity, but we have chosen to be cautious in light of the findings with other distillate streams.

Occasional skin contact with this product is not expected to have serious effects, but good personal hygiene should be practised and repeated skin contact avoided. This product can also be expected to produce skin irritation upon prolonged or repeated skin contact. Personal hygiene measures taken to prevent skin irritation are expected to be adequate to prevent risk of skin cancer.

Diesel exhaust particulates have been classified by the National Toxicoologic Program (NTP) to be a reasonably anticipated human carcinogen. Exposure should be minimized to reduce potential risk.

Naphthalene has been reported to cause developmental toxicity in mice after oral exposure to relatively high dose levels, but developmental toxicity was not observed in NTP (National Toxicology Program) sponsored studies in rats and rabbits. Ingestion or inhalation of naphthalene can result in hemolysis and other blood abnormalities, and individuals (and infants) deficient in glucose-6-phosphate dehydrogenase may be especially susceptible to these effects. Inhalation of naphthalene may cause headache and nausea. Airborne exposure can result in eye irritation. Naphthalene exposure has been associated with cataracts in animals and humans.

Potential chronic health effects

Carcinogenicity

Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

12. Ecological information

Ecotoxicity

No testing has been performed by the manufacturer.

Mobility

Spilages may penetrate the soil causing ground water contamination.

Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

Other ecological information

Spilages may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.
13. Disposal considerations

Waste information

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Dispose of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional/local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

NOTE: The generator of waste has the responsibility for proper waste identification (based on characteristic(s) or listing), transportation and disposal.

14. Transport information

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Class</th>
<th>Packing group</th>
<th>Additional information</th>
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<tbody>
<tr>
<td>DOT Classification</td>
<td>NA 1993</td>
<td>Diesel fuel</td>
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<td>III</td>
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<tr>
<td>TDG Classification</td>
<td>UN 1202</td>
<td>Gas oil</td>
<td>3</td>
<td>III</td>
<td></td>
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<tr>
<td>IMDG Classification</td>
<td>UN 1202</td>
<td>Gas oil</td>
<td>3</td>
<td>III</td>
<td>Remarks: Marine pollutant</td>
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<tr>
<td>IATA/ICAO Classification</td>
<td>UN. 1202</td>
<td>Gas oil</td>
<td>3</td>
<td>III</td>
<td>Remarks: Environmentally hazardous substance mark.</td>
</tr>
</tbody>
</table>

15. Regulatory information

U.S. Federal Regulations

United States inventory (TSCA 5(b))

All components are listed or exempted.

TSCA 12(b) one-time export: Naphthalene

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Straight run kerosene; Naphthalene

SARA 311/312 MSDS distribution: chemical inventory - hazard identification; DIESEL FUEL NO. 1: Fire hazard; Immediate (acute) health hazard, Delayed (chronic) health hazard

SARA 313

<table>
<thead>
<tr>
<th>Product name</th>
<th>CAS number</th>
<th>Concentration</th>
</tr>
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<tbody>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>1.0001 – 3.0034</td>
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</tbody>
</table>

Supplier notification

Naphthalene

91-20-3

1.0001 – 3.0034

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):

CERCLA: Hazardous substances: o-Xylene: 1000 lbs. (454 kg); Naphthalene: 100 lbs. (45.4 kg); benz(o)fluoranthene: 1 lb. (0.454 kg); Ethylbenzene: 1000 lbs. (454 kg); xylene: 100 lbs. (45.4 kg); Cumene: 5000 lbs. (2270 kg); Phenol: 1000 lbs. (454 kg); Toluene: 1000 lbs. (454 kg); Methanol: 5000 lbs. (2270 kg); Benzene: 10 lbs. (4.54 kg); Alkylaryl-sulfonic acid: 1000 lbs. (454 kg)

State regulations

Massachusetts Substances

The following components are listed: KERCOSINE; NAPHTHALENE
New Jersey Hazardous Substances
Pennsylvania RTK
Hazardous Substances
California Prop. 65

The following components are listed: KEROSENE; FUEL OIL #1; NAPHTHALENE; MOTH FLAKES

The following components are listed: KEROSINE (PETROLEUM); NAPHTHALENE

**WARNING:** This product contains a chemical known to the State of California to cause cancer. Naphthalene; Ethylbenzene; benzene[de]chlorocyclohexane

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Toluene

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Benzene

Prop 65 chemicals will result under certain conditions from the use of this material. For example, burning fuels produces combustion products including diesel exhaust, a Prop 65 carcinogen, and carbon monoxide, a Prop 65 reproductive toxin.

**Inventories**

- **Canada Inventory:** Not determined.
- **Europe Inventory:** At least one component is not listed.
- **Australia Inventory (AICS):** At least one component is not listed.
- **China inventory (IECS):** Not determined.
- **Japan Inventory (ENCS):** At least one component is not listed.
- **Korea inventory (KECI):** Not determined.
- **Philippine inventory (PICCS):** At least one component is not listed.

16. Other information

**Label requirements**

**WARNING:**

COMBUSTIBLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF SWALLOWED. ASPIRATION HAZARD. HARMFUL OR FATAL IF LIQUID IS ASPIRATED INTO LUNGS. CAUSES SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. INHALATION CAUSES HEADACHES, DIZZINESS, DROWSINESS, AND NAUSEA, AND MAY LEAD TO UNCONSCIOUSNESS.

<table>
<thead>
<tr>
<th>HMIS® Rating</th>
<th>Health</th>
<th>National Fire Protection Association (U.S.A.)</th>
<th>Fire hazard instability Specific hazard</th>
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<tr>
<td>Health</td>
<td>1</td>
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<tr>
<td>Flammability</td>
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<td>Physical</td>
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<td>protection</td>
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**History**

- **Date of issue:** 07/20/2010.
- **Date of previous issue:** 07/20/2010.
- **Prepared by:** Product Stewardship

**Notice to reader**

<table>
<thead>
<tr>
<th>Product name</th>
<th>DIESEL FUEL NO. 1</th>
</tr>
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<tr>
<td>Version</td>
<td>2</td>
</tr>
<tr>
<td>Date of issue</td>
<td>07/20/2010</td>
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<table>
<thead>
<tr>
<th>Product code</th>
<th>11154</th>
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<tbody>
<tr>
<td>Format</td>
<td>US-COMP</td>
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<tr>
<td>Language</td>
<td>ENGLISH</td>
</tr>
<tr>
<td>(US-COMP)</td>
<td>(ENGLISH)</td>
</tr>
</tbody>
</table>
All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user’s obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

Product name DIESEL FUEL NO. 1
Product code 1154
Version 2 Date of issue 07/20/2010.
Format US-COMP Language ENGLISH.
(US-COMP) (ENGLISH)
Material Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Chevron Clarity® Hydraulic Oil AW

Product Use: Hydraulic Oil
Product Number(s): CPS230340, CPS230341, CPS230342
Synonyms: Chevron Clarity® Hydraulic Oil AW ISO 32, Chevron Clarity® Hydraulic Oil AW ISO 46, Chevron Clarity® Hydraulic Oil AW ISO 68
Company Identification
Chevron Products Company
a division of Chevron U.S.A. Inc.
6001 Bolingar Canyon Road
San Ramon, CA 94583
United States of America
www.chevronlubricants.com

Transportation Emergency Responses
CHEMTREC: (800) 424-9300 or (703) 527-3887
Health Emergency
Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (610) 231-0623
Product Information
email: lubemstrs@chevron.com
product information: (800) LUBE TEK
MSDS Requests: (800) 414-6787

SECTION 2 COMPOSITION INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>CAS NUMBER</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highly refined mineral oil (C15 - C50)</td>
<td>Mixture</td>
<td>90 - 100 % weight</td>
</tr>
</tbody>
</table>

SECTION 3 HAZARDS IDENTIFICATION

IMMEDIATE HEALTH EFFECTS
Eye: Not expected to cause prolonged or significant eye irritation.
Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfiguration or amputation of the affected part.
Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

SECTION 4 FIRST AID MEASURES

Eye: No specific first-aid measures are required. As a precaution, remove contact lenses, if worn, and flush
eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Note to Physicians: In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

SECTION 5 FIRE FIGHTING MEASURES

Leakages in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (e.g., open flame, pilot lights, sparks, or electric arcs).

FIRE CLASSIFICATION:
OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

FLAMMABLE PROPERTIES:
Flashpoint (Cleveland Open Cup) 190 °C (374 °F) (Min)
Autoignition Temperature: No Data Available
Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not Applicable

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.
Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated material in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/ or the U.S. Coast Guard’s National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

Precautionary Measures: DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Exposure Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning,
SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:
Consider the potential hazards of this material (see Section 9), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time under certain circumstances.

ENGINEERING CONTROLS:
Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT
Eye/face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.
Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVA), Nitrile Rubber, Silver Shield, others.
Respiratory Protection: No respiratory protection is normally required.
If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.
Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Component</th>
<th>Agency</th>
<th>TWA</th>
<th>STEL</th>
<th>OSHA</th>
<th>California</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highly refined mineral oil (C15 - C50)</td>
<td>ACGIH</td>
<td>5 mg/m³</td>
<td>10 mg/m³</td>
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<td>-</td>
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<tr>
<td>Highly refined mineral oil (C15 - C50)</td>
<td>OSHA 29 CFR</td>
<td>5 mg/m³</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Colorless
Physical State: Liquid
Order: Petroleum odor
pH: Not Applicable
Vapor Pressure: <0.01 mmHg @ 37.8 °C (100 °F)
Vapor Density (Air = 1): >1
Boiling Point: >315°C (599°F)
Solubility: Soluble in hydrocarbon solvents; insoluble in water.

Density: 0.86 - 0.87 kg/L @ 15.6°C (60.1°F)
Viscosity: 32 cSt @ 40°C (104°F) (Min)
SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: May react with strong acids or strong oxidizing agents, such as chlorates, nitric acid, peracids, etc.

Hazardous Decomposition Products: None known (None expected)

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS

Eye Irritation: The Draize eye irritation mean score in rabbits for a 24-hour exposure was: 2/110.

Skin Irritation: For a 24-hour exposure, the Primary Irritation Score (PIS) in rabbits is: 0.76.

Skin Sensitization: No product toxicity data available.

Acute Dermal Toxicity: LD50: >2.0g/kg (rabbit).

Acute Oral Toxicity: LD50: >5 g/kg (rat).

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

ADDITIONAL TOXICOLOGICAL INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils require a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxilogical Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as: carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY

96 hour(s) LC50: >5000 mg/l (WAF) (Onnchynchos mykles)

96 hour(s) LC50: >5000 mg/l (WAF) (Mytilus galloprovincialis)

This material is not expected to be harmful to aquatic organisms.

ENVIRONMENTAL FATE:

This material is considered inherently biodegradable.

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

SECTION 14 TRANSPORTATION INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: PETROLEUM LUBRICATING OIL, NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49 CFR

Additional Information: NOT HAZARDOUS BY U.S. DOT, ADR/RID HAZARD CLASS NOT APPLICABLE.
**IMDG Shipping Description**: PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

**ADIATA Shipping Description**: PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

### SECTION 16 REGULATORY INFORMATION

**EPCRA 311/312 CATEGORIES:**
1. Immediate (Acute) Health Effects: NO
2. Delayed (Chronic) Health Effects: NO
3. Fire Hazard: NO
4. Sudden Release of Pressure Hazard: NO
5. Reactivity Hazard: NO

**REGULATORY LISTS SEARCHED:**
- 01-1=ARC Group 1
- 01-2A=ARC Group 2A
- 01-2S=ARC Group 2B
- 02=NTP Carcinogen
- 03=EPCRA 313
- 04=CA Proposition 65
- 05=MA RTK
- 06=NJ RTK
- 07=PA RTK

No components of this material were found on the regulatory lists above.

**CHEMICAL INVENTORIES:**
All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

**NEW JERSEY RTK CLASSIFICATION:**
Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Hydraulic Oil)

**WHMIS CLASSIFICATION:**
This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

### SECTION 16 OTHER INFORMATION

**NFPA RATINGS:**
- Health: 0
- Flammability: 1
- Reactivity: 0

**HMSI RATINGS:**
- Health: 1
- Flammability: 1
- Reactivity: 0

(D=Low, 1-Slight, 2-Moderate, 3=High, 4-Extreme, PPE= Personal Protection Equipment Index recommendation, C= Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMSI ratings).

**LABEL RECOMMENDATION:**
Label Category : INDUSTRIAL OIL 1 - IND1

**REVISION STATEMENT:**
This revision updates the following sections of this Material Safety Data Sheet: 12.
Revision Date: August 28, 2008

**ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:**
- TVL - Threshold Limit Value
- TWA - Time Weighted Average
- FEL - Short-term Exposure Limit
- PEL - Permissible Exposure Limit
- CAS - Chemical Abstract Service Number

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michael:\Users\e4fleurer\Desktop\MSDS\Wolf230XXXXXX Clarity Hydraulic AW 32-4... 4/22/2011
<table>
<thead>
<tr>
<th>ACGIH - American Conference of Governmental Industrial Hygienists</th>
<th>IMDG - International Maritime Dangerous Goods Code</th>
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</thead>
<tbody>
<tr>
<td>API - American Petroleum Institute</td>
<td>MSDS - Material Safety Data Sheet</td>
</tr>
<tr>
<td>CVX - Chevron</td>
<td>NFPA - National Fire Protection Association (USA)</td>
</tr>
<tr>
<td>DOT - Department of Transportation (USA)</td>
<td>NTP - National Toxicology Program (USA)</td>
</tr>
<tr>
<td>IARC - International Agency for Research on Cancer</td>
<td>OSHA - Occupational Safety and Health Administration</td>
</tr>
</tbody>
</table>

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Chevron Energy Technology Company, 100 Chevron Way, Richmond, California 94803.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereon. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.
REQUEST FOR DISCUSSION
To: Peoria City/County Landfill Committee Members
From: Josh Gabehart, PE, Foth

AGENDA DATE REQUESTED: February 19, 2014

ACTION REQUESTED: Receive and File and Approval for Mr. Les Bergsten’s Signature

BACKGROUND: The following report is provided for miscellaneous engineering items that have occurred since the last scheduled Committee meeting:

Permit Approvals as Needed and Request for Mr. Les Bergsten’s Signature


Foth respectfully requests approval to obtain Mr. Bergsten’s signature should the need arise for any other permit or notifications which are due prior to the next Committee Meeting.

Financial Information
Attached is a spreadsheet showing the engineering services provided from January 1, 2014 through January 31, 2014. Gas Collection and Control System (GCCS) and Leachate Extraction System design and bid document preparation is included in these expenses. Bids are to be opened on February 18, 2014 and will be formally presented at the March 19, 2014 Committee Meeting.

Updates Regarding Compliance Activities, Measures and Progress

Since the last Committee meeting, there was one shutdown of the gas collection system that occurred on January 26, 2014 and was caused by a frozen line at the leachate storage tank. The frozen line prevents the automated North-South Pump from removing condensate and leachate from the sump, thereby causing a rise in liquid levels and a blockage in the gas line at the flare. In December, heat trace and insulation was installed on exposed secondary piping that is used to pump excess liquid in the event that the gas line becomes blocked. This piping is being used to remove the excess liquid and maintain gas flow at the flare, but requires manual pumping.

Foth suspects the issue at the leachate storage tank initiates below ground and continues to the point of entry into the storage tank. This issue will be addressed when the ambient and ground temperature rise above freezing. Insulation is currently installed on this piping but an electrical source is not readily available to install heat trace.

This southeast area of the landfill continues to have groundwater and gas impacts due to landfill gas concentrations. These impacts are observed in G02S, G04S and GMD2. Increased leachate levels in the area contribute to ineffective gas collection, resulting in gas migration and subsequent exceedances at GMD2 and trace organic compound detects in area groundwater monitoring wells.

Both issues, subsurface gas migration and groundwater impacts, should be addressed by the
GCCS and leachate extraction system improvements that have been designed and solicited for bid since the January 19, 2013 Landfill Committee meeting. The improvements will include 3 solar pumps and a higher capacity submersible pump at the North-South sump to remove the expected increase of condensate and leachate generated by these improvements. The improvements include a new 10" gas collection header to improve gas collection in the southeast area of Landfill 1. The cost estimate for the improvements is $230,000, including engineering. This work is planned for a substantial completion date of May 31, 2014. When the system is operational, groundwater and gas issues should be reduced over time.

FINANCIAL IMPACT: The FY2014 Budget will include $230,000 for the proposed GCCS improvements.
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<thead>
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<th>Item</th>
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<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
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**Note:**
- Payments include all regular monthly expenses.
- Salaries include all regular monthly salaries.
- Supplies include all regular monthly supplies.
- Building Rent includes all regular monthly building rent.
- Hosting includes all regular monthly hosting costs.
- Total includes all regular monthly expenses.
REQUEST FOR DISCUSSION

To: Peoria City/County Landfill Committee Members
From: Mike Rogers, Public Works Director

AGENDA DATE REQUESTED: February 19, 2014

ACTION REQUESTED: RECEIVE AND FILE MONTHLY REPORTS

BACKGROUND: Attached is the monthly budget report.

1. The monthly budget report reflects the (12) month budget and budget balance has been added to the report.

FINANCIAL IMPACT: NA
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<th>MARCH</th>
<th>APRIL</th>
<th>MAY</th>
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<th>SEPTEMBER</th>
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<td>Landfill Gas Flare &amp; Vent Field</td>
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<td>Umbrella &amp; Gas Replacement Materials</td>
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| DUE TO REVENUES | $27,890.42 | $2,411.47 | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $ - | $30,301.72 |

| BEGINNING CASH BALANCE | $236,742.89 | $244,438.14 | $255,652.66 | $265,812.61 | $265,812.61 | $266,812.61 | $266,812.61 | $266,812.61 | $266,812.61 | $265,812.61 | $251,912.32 | $232,945.46 | $257,679.81 | $236,722.89 |
| Illinois Funds | $537.33 | $637.33 | $637.33 | $637.33 | $637.33 | $637.33 | $637.33 | $637.33 | $637.33 | $637.33 | $637.33 | $637.33 | $637.33 | $637.33 |
| Landfill Royalty Fund | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 |

| ENDING CASH BALANCE | $264,454.34 | $245,839.81 | $256,829.61 | $266,812.61 | $266,812.61 | $266,812.61 | $266,812.61 | $266,812.61 | $266,812.61 | $266,812.61 | $251,912.32 | $232,945.46 | $257,679.81 | $236,722.89 |
| Landfill Royalty Fund | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 | $36,705.72 |
**Landfill 2014 Budget to Actual**  
*Wednesday, February 19, 2014*

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<th>DESCRIPTION</th>
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<th>2014 Budget</th>
<th>1st Quarter Actual</th>
<th>2014 Year-End Budget Balance</th>
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<td>On Illinois Funds</td>
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<td>Other Revenues</td>
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<td>Subtotal Other</td>
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<td>Property Management Expenses</td>
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<td>Engineering &amp; Operations</td>
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<td>Operations</td>
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<td>Expansion, RTC &amp; Contingency</td>
<td>$ 15,000.00</td>
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<td>Groundwater Assessments</td>
<td>$ 40,000.00</td>
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<td>LF # 1 Leachate Ops. &amp; LFG Ops.</td>
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<td>LF # 1 Construction Engineering</td>
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<td>Dam Monitoring</td>
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<tr>
<td>Contracted Construction</td>
<td>$</td>
<td></td>
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<tr>
<td>Post Closure Care</td>
<td>$</td>
<td></td>
<td></td>
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<tr>
<td>Groundwater Contingency</td>
<td>$ 6,000.00</td>
<td>$ 5,000.00</td>
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<td>Landfill Gas Flare &amp; Wall Field:</td>
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<tr>
<td>Liquids &amp; Gas Replacement Materials</td>
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<td>Excess Expenses over Revenues</td>
<td>$ (249,688.02)</td>
<td>$ (47,841.00)</td>
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**BEGINNING CASH BALANCE @ 1/1/2014**  
$ 236,727.89

**ENDING CASH BALANCE @ 12/31/2014**  
$
REQUEST FOR DISCUSSION

To: Peoria City/County Landfill Committee Members
From: Michael Rogers, Public Works Director

AGENDA DATE REQUESTED: February 19, 2014

ACTION REQUESTED: Approval for the renewal of the Farming Lease Agreement with Jerry Wyatt for 210.42 Acres for a one-year term from April 1, 2014, to March 31, 2015, in the amount of $1200 on the Peoria City/County Landfill property.

BACKGROUND: Mr. Jerry Wyatt submitted a request on January 15, 2014, to renew the lease agreement for this 210.42-acre area from the City/County Landfill. The current rate for the lease was $400 per year from April 1, 2013, to March 31, 2014. The one-year term is consistent with all of the Lease Agreements with the Peoria City/County Landfill Committee.

FINANCIAL IMPACT: NA
January 13, 2014

Mike Rogers  
Public Works Department  
419 Fulton Street  
Poria, IL. 61602

Dear Mr. Rogers,

I am writing to inform you that I am interested in continuing our license agreement on the 191 acres located on the East side of Murphy road. I currently pay $400.00 per year for this license agreement; however, I would be willing to raise this to $1200.00 per year. Thank you for your consideration regarding this offer.

Sincerely,

Jerry Wyatt
LICENSE AGREEMENT

This License Agreement is made between the City of Peoria and County of Peoria, by and through the Joint City/County Solid Waste Committee (hereinafter referred to as "LICENSOR") and Jerry T. Wyatt, (hereinafter referred to as "LICENSEE"), and the parties agree as follows:

1. TERM
The term of this License Agreement shall be for one year from April 1, 2014 to March 31, 2015. Upon mutual agreement of the parties, this License Agreement may be extended for up to an additional four years.

2. PROPERTY
LICENSOR is the owner of a tract of land described in Exhibit "A," Which is attached hereto and incorporated herein, and which is hereinafter be referred to as the "PREMISES".

However, the parties agree and understand that the PREMISES which is subject of this Agreement consists only of the 210.42 acres included in the description on Exhibit "A", which lie easterly of the centerline of Murphy Road.

3. LICENSEE'S AUTHORITY
LICENSOR gives permission solely to LICENSEE to enter upon the PREMISES to plant clover and sunflowers, all at his own expense. LICENSOR also gives permission solely to LICENSEE and Becky Wyatt to enter upon premises to hunt and fish. LICENSEE shall not bring any agricultural equipment or vehicles onto the PREMISES without obtaining the prior consent of the City of Peoria Manager or his designee. LICENSEE may also enter upon the PREMISES to advise persons who may be trespassing thereon that they do not have permission to be on the PREMISES. However, in no instance is LICENSEE to use force or threats of any type to remove said persons from the PREMISES. Any use of force or threats shall be a violation of the license Agreement and shall immediately dissolve any relationship between the parties. If anyone so notified by LICENSEE does not leave the PREMISES, LICENSEE shall contact the Peoria County Sheriff's Department. LICENSEE may bring his own vehicle onto the PREMISES to transport Sheriff's Deputies as necessary. LICENSEE is the agent of the LICENSOR only to the extent that he follows the precise conditions stated in this License Agreement.
4. **LICENSOR’S USE OF PREMISES**
LICENSOR reserves the right to enter upon the PREMISES at any time and to use the PREMISES for any purpose they see fit. LICENSEE understands and agrees that the Peoria County Sheriff may use the PREMISES for training exercises, including the detonation of bombs, use of ATV’s and other types of training and may also use the PREMISES as a firing range.

5. **TAXES**
In the event that real estate taxes are assessed against the PREMISES as a result of this Agreement, LICENSEE agrees to pay any taxes which become due.

6. **INDEMNITY AND INSURANCE**
LICENSEE agrees to defend and to indemnify of the City of Peoria, the County of Peoria and the City/County Joint Solid Waste Committee, their employees, officers and officials and hold them harmless from, for and in respect of any liability, damages, claims, demand of expenses (including but not limited to Court costs, reasonable Attorney fees, and other costs of defense) caused or arising out of LICENSEE’s acts or omissions, this includes but is not limited to any injuries (either personal or property) that occur on the PREMISES due to the LICENSEE’s or Becky Wyatt’s use of the PREMISES for hunting or fishing.

LICENSEE acknowledges that the City of Peoria and the County of Peoria do not insure the PREMISES.

LICENSEE shall purchase, at his own expense, such insurance as he feels necessary.

7. **LICENSEE’S ASSUMPTION OF LIABILITY**
LICENSEE agrees to assume any and all liability resulting from the condition of the PREMISES and the acts or omissions of third parties, including injury or damage to the property or person of the LICENSEE, during the term of this Agreement. LICENSEE expressly agrees to hold LICENSOR harmless from any liability caused by LICENSEE’s actions, either direct or indirect, from LICENSEE’s use of the PREMISES. LICENSEE’s assumption of liability with regard to the condition of the PREMISES is based on the fact that the parties have conducted a diligent search of the PREMISES and that no latent defects are known to either party.
8. **PROHIBITION AGAINST ASSIGNMENT**
   This Agreement and the rights thereunder shall not be assigned.

9. **NOTICE**
   Any and all notices shall be given in writing by certified mail, return receipt requested, as follows:

   Notice to LICENSOR shall be sent and mailed to:
   (1) Director of Public Works  
       3505 N. Dries Lane  
       Peoria, IL 61604  
   (2) Peoria County Administrator  
       Peoria County Courthouse, Room 401  
       324 Main  
       Peoria, IL 61602

   Notice to LICENSEE shall be sent and mailed to:
   Jerry T. Wyatt  
   10806 West Southport Road  
   Edwards, IL 61528

10. **SEVERABILITY**
    If any portion of this Agreement shall be, for any reason, invalid or unenforceable, the remaining portion or portions shall, nevertheless be valid and enforceable and carried into effect, unless to do so would clearly violate the present legal and valid intention of the parties hereto.

11. **CONSIDERATION**
    LICENSEE shall pay LICENSOR the sum of One Thousand Two Hundred Dollars ($1,200.00) upon execution of this Agreement and annually for the duration of the license.

12. **TERMINATION**
    Either party may terminate this Agreement at any time, with or without cause, upon providing seven days written notice to the other party.
13. **ENTIRE AGREEMENT**

This Agreement contains the entire agreement between the parties with respect to the subject matter hereof. No change or modification of this Agreement shall be valid unless the same be in writing and signed by the parties. No waiver of any provisions of this Agreement shall be valid unless the same be in writing and signed by the person or parties to be charged.

**IN WITNESS WHEREOF,** the parties have executed this Agreement this ______ day of ______________, 2014.

**LICENSOR**

By: ________________________________  
LESTER D. BERGSTEN, Chairman  
Joint City/County Solid Waste Committee

**LICENSEE**

By: ________________________________  
JERRY T. WYATT
REQUEST FOR DISCUSSION

To: Peoria City/County Landfill Committee Members
From: Steve Matheny, Landfill Sales Waste Management

AGENDA DATE REQUESTED: February 19, 2014

ACTION REQUESTED: RECEIVE AND FILE MONTHLY REPORTS

BACKGROUND: Attached are the monthly summary report, profiled waste log, and year over year comparison chart for January 2014.

1. All weekly random load checks were completed and documented with no issues to report.

2. We respectfully request Mr. Bergsten's signature on the IEPA annual landfill capacity certification for LF#2, subject to review and approval in advance by Foth. This is an annual IEPA submittal due by March 1st of each year.

3. WM does not anticipate any permit requests but respectfully asks the Committee to allow administrative approval of permits for signature by Mr. Bergsten, subject to review and approval in advance by Foth, if permit submittals are required prior to the March meeting.

FINANCIAL IMPACT: NA
# Peoria City/County Landfill No. 2
## Waste Management of Illinois, Inc.
### Monthly Activity Report
#### January 2014

### Tonnage: General Refuse & Special Waste

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<th>Description</th>
<th>Current</th>
<th>Landfill #2</th>
<th>Year to Date</th>
<th>Year to Date</th>
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<td><strong>Month</strong></td>
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<td>14,103.15</td>
<td>13,867.94</td>
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| **Special Wastes**           |         |             |              |              |
| Industrial (Declassified)    | 629.52  | 529.52      | 743.92       |              |
| Industrial (Exempt)          | 0.00    | 0.00        | 0.00         |              |
| **TOTAL**                    | 629.52  | 529.52      | 743.92       |              |

**TOTAL LANDFILL RECEIPTS**

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### Payments: Payable to City/County Committee

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<table>
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<th>Landfill #2</th>
<th>Year to Date</th>
<th>Year to Date</th>
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<tr>
<td><strong>General Refuse</strong></td>
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<tr>
<td>Tons</td>
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<tr>
<td><strong>Special Waste - Ind.</strong></td>
<td>626.52</td>
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### Payable to/Receiveable From County

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<tr>
<td><strong>$5 Loads</strong></td>
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<td>Loads</td>
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<th>Year to Date</th>
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<tr>
<td>State Fee on Free and $5 Loads</td>
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### Payable to City/County Committee

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<tbody>
<tr>
<td><strong>No Tarp Fee</strong></td>
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<td><strong>TOTAL</strong></td>
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### Tonnage: General Refuse & Special Waste

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<th>YTD</th>
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<th>2013 total tons</th>
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<tr>
<td>Estimated Capacity</td>
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Based on 2012 Airspace Analysis
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<tr>
<th>Profile Name</th>
<th>PMT Name</th>
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<tbody>
<tr>
<td>606568IL</td>
<td>ACM</td>
<td>AGLAND FS</td>
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<tr>
<td>606570IL</td>
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<td>ADM GRAIN</td>
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<tr>
<td>104976IL</td>
<td>Sp. Waste</td>
<td>ADM PEORIA</td>
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<td>606526IL</td>
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<td>AMEREN EDWARDS</td>
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<td>WM010289</td>
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<td>CANTON READY MIX, INC.</td>
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<td>SM5084</td>
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<td>606563IL</td>
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<td>D92091</td>
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<td>606203IL</td>
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<td>606538IL</td>
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<td>608279IL</td>
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Year to Year Comparison
January
2014

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