To: Buchholz, Ken[Buchholz.Kenneth@epa.gov]
From: Jay, Michael
Sent: Mon 10/31/2016 6:51:38 PM
Subject: FW: Health questions / concerns: Atchison, KS: MGP
chlorine-results-aegl-program.pdf
MMG for Chlorine.pdf
ToxFAQ for chlorine.pdf
toxguide for chlroine.pdf

Ken,

If you need any support from Air program on this, after the fact, let me know.

Mike Jay

Branch Chief
Air Planning and Development Branch
USEPA R7
913-551-7460

From: Hooper, Charles A.
Sent: Monday, October 24, 2016 9:54 AM
To: Jay, Michael <Jay.Michael@epa.gov>
Subject: FW: Health questions / concerns: Atchison, KS: MGP

Chuck Hooper, CHP
Radiation Safety Officer
EPA Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219
(913) 551-7271 office
Hooper.CharlesA@epa.gov

From: Buchholz, Ken
Sent: Friday, October 21, 2016 3:56 PM
To: Peterson, Mary <Peterson.Mary@epa.gov>; Jackson, Robert W. <Jackson.Robertw@epa.gov>; Hague, Mark <Hague.Mark@epa.gov>; Chu, Ed <Chu.Ed@epa.gov>; Carey, Curtis <Carey.Curtis@epa.gov>; Eoc, Epahq <Eoc.Epahq@epa.gov>; Cheatham, Reggie <cheatham.reggie@epa.gov>; FEMA-R7-WatchOps <FEMA-R7-WatchOps@fema.dhs.gov>; Pyakuryal, Kumud <Pyakuryal.Kumud@epa.gov>; fahmed@kdheks.gov; Eoc, Epahq <Eoc.Epahq@epa.gov>
Cc: Brees, Angela <Brees.Angela@epa.gov>; Bryan, David <Bryan.David@epa.gov>; Whitley, Christopher <Whitley.Christopher@epa.gov>; Hoefer, David <Hoefer.David@epa.gov>; Cozad, David <Cozad.David@epa.gov>; Brincks, Mike <brincks.mike@epa.gov>; Irizarry, Gilberto <Irizarry.Gilberto@epa.gov>; Williams, David (R7) <Williams.Dave@epa.gov>; Ruiz, Adam <Ruiz.Adam@epa.gov>; Fisher, Susan <Fisher.Susan@epa.gov>; Frey, John <Frey.John@epa.gov>; McCullough, Michael <mccullough.michael@epa.gov>; Hayes, Scott <Hayes.Scott@epa.gov>; Hensley, Dave <Hensley.Dave@epa.gov>; Dorsey, Debra <Dorsey.Debra@epa.gov>; LaMaster, Anthony <LaMaster.Anthony@epa.gov>; Johnson, James <Johnson.James@epa.gov>; Schlieger, Brian <schlieger.brian@epa.gov>; Woodyard, Josh <Woodyard.Joshua@epa.gov>; Williams, David (R7) <Williams.Dave@epa.gov>; R7 SUPR-AERR <R7_SUPR-AERR@epa.gov>; KSchierk@kdheks.gov; bjurgens@kdheks.gov; Ferguson, Doug <Ferguson.Doug@epa.gov>; brad.harris@dnr.mo.gov; alan.cortvrient@dnr.mo.gov; dennis.stinson@dnr.mo.gov; Dawn.Warren@sema.dps.mo.gov; Davis, Joe <Davis.Joe@epa.gov>; Beringer, Mike <Beringer.Michael@epa.gov>; Tapp, Joshua <Tapp.Joshua@epa.gov>; Tapia, Cecilia <Tapia.Cecilia@epa.gov>; Roemerman, Paul <Roemerman.Paul@epa.gov>; Flournoy, Karen <Flournoy.Karen@epa.gov>; Flournoy, Luetta <Flournoy.Luetta@epa.gov>; Quick, Michelle <Quick.Michelle@epa.gov>; Kokko, Cory <Kokko.Cory@epa.gov>; Williams, Spencer <Williams.Spencer@epa.gov>; Evans, Erin <Evans.Erin@epa.gov>; JDom@kdheks.gov; Brown, Randolph <Brown.Randolph@epa.gov>; Davis, Joe <Davis.Joe@epa.gov>; R7 RICT <R7_RICT@epa.gov>
Subject: RE: Health questions / concerns: Atchison, KS: MGP

JUST a fyi. No response needed.
I have had a few questions related to Fact sheets that are being shared with Unified Command in Atchison, KS. Here you go.
Thanks
Ken

From: Buchholz, Ken
Sent: Friday, October 21, 2016 3:40 PM
To: Peterson, Mary <Peterson.Mary@epa.gov>; Jackson, Robert W. <Jackson.Robertw@epa.gov>; Hague, Mark <Hague.Mark@epa.gov>; Chu, Ed <Chu.Ed@epa.gov>; Carey, Curtis <Carey.Curtis@epa.gov>; Eoc, Epahq <Eoc.Epahq@epa.gov>; Cheatham, Reggie <cheatham.reggie@epa.gov>; 'FEMA-R7-WatchOps' <FEMA-R7-WatchOps@fema.dhs.gov>; Pyakuryal, Kumud <Pyakuryal.Kumud@epa.gov>; fahmed@kdheks.gov; Epahq Eoc (Eoc.Epahq@epa.gov) <Eoc.Epahq@epa.gov>
Cc: Brees, Angela <Brees.Angela@epa.gov>; Bryan, David <Bryan.David@epa.gov>; Whitley, Christopher <Whitley.Christopher@epa.gov>; Hoefer, David <Hoefer.David@epa.gov>; Cozad, David <Cozad.David@epa.gov>; Brincks, Mike <brincks.mike@epa.gov>; Irizarry, Gilberto <Irizarry.Gilberto@epa.gov>; Williams, David (R7) <Williams.Dave@epa.gov>; Ruiz, Adam <Ruiz.Adam@epa.gov>; Fisher, Susan <Fisher.Susan@epa.gov>; Frey, John <Frey.John@epa.gov>; McCullough, Michael <mccullough.michael@epa.gov>; Hayes, Scott <Hayes.Scott@epa.gov>; Hensley, Dave <Hensley.Dave@epa.gov>; Dorsey, Debra <Dorsey.Debra@epa.gov>; LaMaster, Anthony <LaMaster.Anthony@epa.gov>; Johnson, James <Johnson.James@epa.gov>; Schlieger, Brian <schlieger.brian@epa.gov>; Woodyard, Josh <Woodyard.Joshua@epa.gov>; Williams, David (R7) <Williams.Dave@epa.gov>; R7 SUPR-AERR <R7_SUPR-AERR@epa.gov>; Kent Schierkolk <KSchierk@kdheks.gov>; BJurgens@kdheks.gov; Ferguson, Doug <ferguson.doug@epa.gov>; 'brad.harris@dnr.mo.gov' <brad.harris@dnr.mo.gov>; 'alan.cortvrient@dnr.mo.gov' <alan.cortvrient@dnr.mo.gov>; Stinson, Dennis <dennis.stinson@dnr.mo.gov>; Dawn.Warren@sema.dps.mo.gov; Davis, Joe <davis.joe@epa.gov>; Beringer, Mike <beringer.michael@epa.gov>; Tapp, Joshua <Tapp.Joshua@epa.gov>; Tapia, Cecilia <tapia.cecilia@epa.gov>; Roemerman, Paul <roemerman.paul@epa.gov>; karen flournoy (flournoy.karen@epa.gov) <flournoy.karen@epa.gov>; Flournoy, Luetta <Flournoy.Luetta@epa.gov>; Michelle Quick (quick.michelle@epa.gov) <quick.michelle@epa.gov>; Kokko, Cory <Kokko.Cory@epa.gov>; Williams, Spencer <Williams.Spencer@epa.gov>; Evans, Erin <Evans.Erin@epa.gov>; JDom (JDom@kdheks.gov) <JDom@kdheks.gov>; Brown, Randolph <Brown.Randolph@epa.gov>; Davis, Joe <davis.joe@epa.gov>
Subject: Health questions / concerns: Atchison, KS: MGP

Mark/Ed/Mary,
Just fyi.

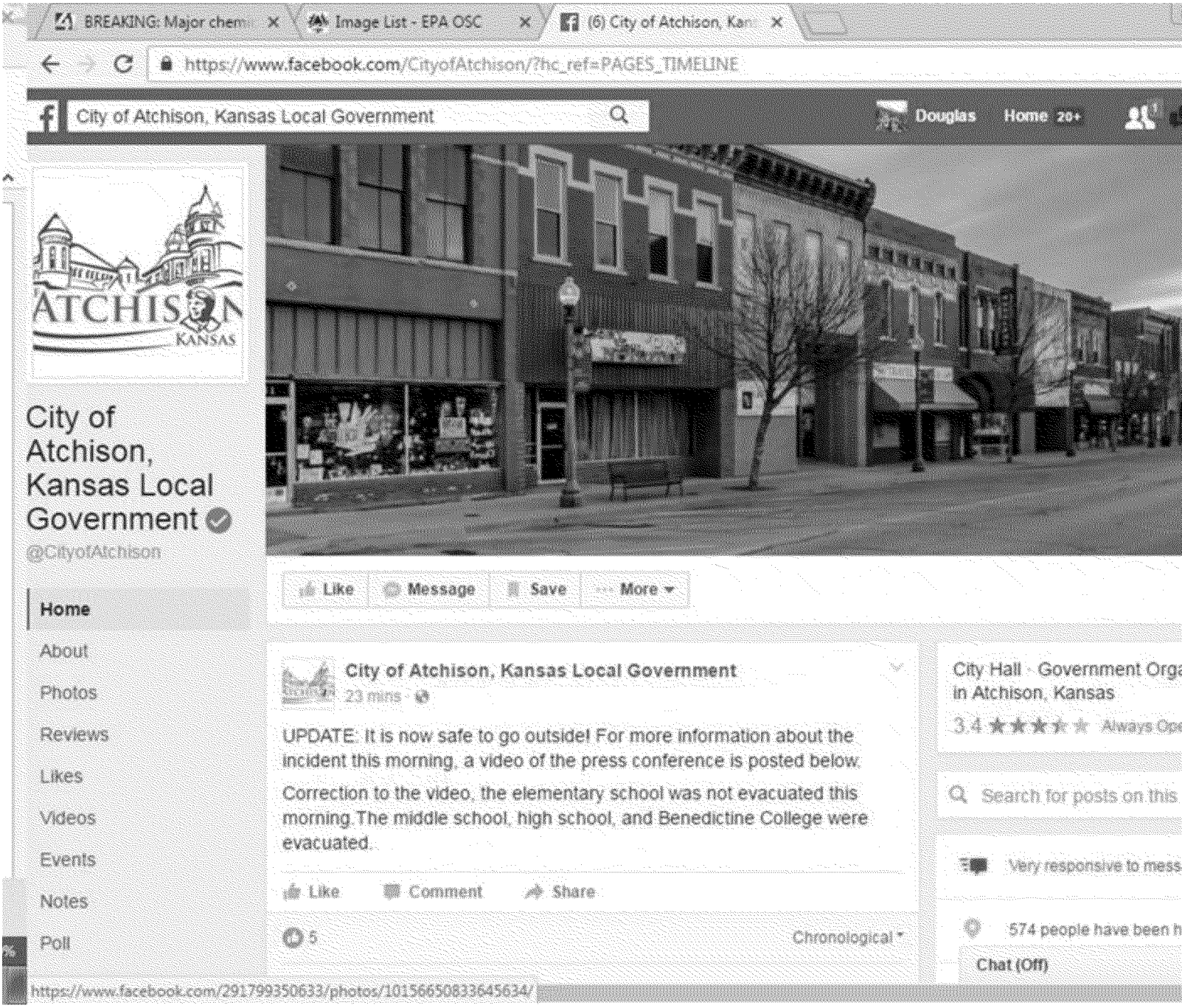
- **Paul Doherty, R7 OSC remains on-site at the Command Center this afternoon / evening.**
- **In coordination with Unified Command, EPA R7 has conducted on-site and perimeter air monitoring at the site this afternoon – no chlorine detects.**
- **Randy Brown, R7 OSC may relieve Paul Doherty tomorrow (if needed).**
- **City Manager / Local response officials are getting many health related questions from the public.**
- **Julie Coleman KDHE is heading to the site.**
- **Cory Kokko, ATSDR is assisting the City Manager answering public health questions. Her cell phone number 913-217-5981.**
- **ATSDR is coordinating with KS Bureau of Epidemiology when addressing health risk questions.**
- **Joe Davis, OSC will be answering our 24/7 spill line from now until Monday.**
- **Joe Davis, OSC will send an e-mail update (reply to all) later this evening or first thing tomorrow morning.**

Thanks
Ken

From: Buchholz, Ken
Sent: Friday, October 21, 2016 12:01 PM
To: Roemerman, Paul <Roemerman.Paul@epa.gov>; Peterson, Mary <Peterson.Mary@epa.gov>; Jackson, Robert W. <Jackson.Robertw@epa.gov>; Hague, Mark <Hague.Mark@epa.gov>; Chu, Ed <Chu.Ed@epa.gov>; Carey, Curtis <Carey.Curtis@epa.gov>; Eoc, Epahq <Eoc.Epahq@epa.gov>; Cheatham, Reggie <cheatham.reggie@epa.gov>; FEMA-R7-WatchOps <FEMA-R7-WatchOps@fema.dhs.gov>; Pyakuryal, Kumud <Pyakuryal.Kumud@epa.gov>
Cc: Brees, Angela <Brees.Angela@epa.gov>; Bryan, David <Bryan.David@epa.gov>; Whitley, Christopher <Whitley.Christopher@epa.gov>; Hoefer, David <Hoefer.David@epa.gov>; Cozad, David <Cozad.David@epa.gov>; Brincks, Mike <brincks.mike@epa.gov>; Irizarry, Gilberto <Irizarry.Gilberto@epa.gov>; Williams, David (R7) <Williams.Dave@epa.gov>; Ruiz, Adam <Ruiz.Adam@epa.gov>; Fisher, Susan <Fisher.Susan@epa.gov>; Frey, John <Frey.John@epa.gov>; McCullough, Michael <mccullough.michael@epa.gov>; Hayes, Scott <Hayes.Scott@epa.gov>; Hensley, Dave <Hensley.Dave@epa.gov>; Dorsey, Debra <Dorsey.Debra@epa.gov>; LaMaster, Anthony <LaMaster.Anthony@epa.gov>; Johnson, James <Johnson.James@epa.gov>; Schlieger, Brian <schlieger.brian@epa.gov>; Woodyard, Josh <Woodyard.Joshua@epa.gov>; Williams, David (R7) <Williams.Dave@epa.gov>; R7 SUPR-AERR <R7_SUPR-AERR@epa.gov>; Kent Schierkolk <KSchierk@kdheks.gov>; BJurgens@kdheks.gov; Ferguson, Doug <ferguson.doug@epa.gov>; 'brad.harris@dnr.mo.gov' <brad.harris@dnr.mo.gov>; alan.cortvrient@dnr.mo.gov; Stinson, Dennis <dennis.stinson@dnr.mo.gov>; Dawn.Warren@sema.dps.mo.gov
Subject: FINAL UPDATE: All Clear has been given: Atchison, KS: MGP Ingredients

Mark/Ed/Mary,

- **Atchison Hospital reports that they have seen 34 or 35 patients related to the incident that will be under observation for the CDC recommended 6 hours. One (1) patient is in ICU with respiratory distress. They had a lot of providers (physicians, PAs, nurses). They are in good shape right now.**
- **EPA R7 continues to coordinate with local and state response officials (MDNR and KDHE) and Missouri CST (in the State of Missouri).**
- **All clear has been given (see note below from Atchison).**



From: Ferguson, Doug
John Jacobson, CEO of Atchison Hospital. They have seen 34 or 35 patients related to the incident that will be under observation for the CDC recommended 6 hours. One (1) patient is in ICU with respiratory distress. They had a lot of providers (physicians, PAs, nurses) available plus a light surgery schedule since it was Friday and they opened up pre- and post-op for the observation area. They are in good shape right now.

From: Roemerman, Paul
Sent: Friday, October 21, 2016 11:19 AM
To: Buchholz, Ken <Buchholz.Kenneth@epa.gov>; Peterson, Mary <Peterson.Mary@epa.gov>; Jackson, Robert W. <Jackson.Robertw@epa.gov>; Hague, Mark <Hague.Mark@epa.gov>; Chu, Ed <Chu.Ed@epa.gov>; Carey, Curtis <Carey.Curtis@epa.gov>; Eoc, Epahq <Eoc.Epahq@epa.gov>; Cheatham, Reggie <cheatham.reggie@epa.gov>; FEMA-R7-WatchOps <FEMA-R7-WatchOps@fema.dhs.gov>; Pyakuryal, Kumud <Pyakuryal.Kumud@epa.gov>
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<Williams.Dave@epa.gov>
Subject: RE: EPA OSC dispatched to Atchison, KS: MGP Ingredients

Attached is the NRC report and a basic plume map.

Thanks, Paul

Paul W. Roemerman
Site Assessment Manager
Kansas State Coordinator
US EPA Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219
913-551-7694

National Response Center 24/7 Spill Reporting Line 1-800-424-8802 and EPA Emergency Response Duty Officer 24/7 Spill Reporting Line 913-281-0991

From: Buchholz, Ken
Sent: Friday, October 21, 2016 11:01 AM
To: Peterson, Mary <Peterson.Mary@epa.gov>; Jackson, Robert W. <Jackson.Robertw@epa.gov>; Hague, Mark <Hague.Mark@epa.gov>; Chu, Ed <Chu.Ed@epa.gov>; Carey, Curtis <Carey.Curtis@epa.gov>; Eoc, Epahq <Eoc.Epahq@epa.gov>; Cheatham, Reggie <cheatham.reggie@epa.gov>; FEMA-R7-WatchOps <FEMA-R7-WatchOps@fema.dhs.gov>; Pyakuryal, Kumud <Pyakuryal.Kumud@epa.gov>
Cc: Brees, Angela <Brees.Angela@epa.gov>; Bryan, David <Bryan.David@epa.gov>; Whitley, Christopher <Whitley.Christopher@epa.gov>; Hoefer, David <Hoefer.David@epa.gov>; Cozad, David <Cozad.David@epa.gov>; Brincks, Mike <brincks.mike@epa.gov>; Irizarry, Gilberto <Irizarry.Gilberto@epa.gov>; Williams, David (R7) <Williams.Dave@epa.gov>; Ruiz, Adam <Ruiz.Adam@epa.gov>; Fisher, Susan <Fisher.Susan@epa.gov>; Frey, John <Frey.John@epa.gov>; McCullough, Michael <mccullough.michael@epa.gov>; Roemerman, Paul <Roemerman.Paul@epa.gov>; Hayes, Scott <Hayes.Scott@epa.gov>; Hensley, Dave <Hensley.Dave@epa.gov>; Dorsey, Debra <Dorsey.Debra@epa.gov>; LaMaster, Anthony <LaMaster.Anthony@epa.gov>; Johnson, James <Johnson.James@epa.gov>; Schlieger, Brian <schlieger.brian@epa.gov>; Woodyard, Josh <Woodyard.Joshua@epa.gov>; Williams, David (R7) <Williams.Dave@epa.gov>
Subject: EPA OSC dispatched to Atchison, KS: MGP Ingredients

Mary,
FYI. Region 7 is dispatching Paul Doherty, OSC (w/ START contractor support) to supporting state and local emergency response officials on a chemical release in Atchison, Kan. There have been evacuations and injuries reported via local media sources. The EPA on-scene coordinator has been sent to the site to assist first responders and continue operational assessments (air monitoring). Region 7 is coordinating with KDHE, FEMA, EPAHQ EOC. We are coordinating with our R7 Public Affairs (David Bryan) and AWMD (Dave Hensley). We know from Tier II reporting there is also 72,000 lbs of propylene oxide stored on-site.

There is reportedly a very broad evacuation zone: Public schools, Benedictine College, etc. and have been evacuated.

NRC has sent EPA and the state a notification of the release at around 10:30 a.m..
CALLER IS REPORTING WHILE UNLOADING A TRUCK OF SULFURIC ACID, THE PRODUCT WAS PUMPED INTO A TANK CONTAINING SODIUM HYPOCHLORITE. THIS RESULTED IN A CHEMICAL REACTION WHICH CAUSED A RELEASE OF UNKNOWN MATERIAL VAPOR INTO THE AIR. This would likely produce chlorine vapor cloud.

Paul Doherty, OSC will report to:
Command Post:
216 South 10th Street
Atchison KS
Next to Taco John's