

Operational Period #10

03/17 07:00 CDT - 03/25 07:00 CDT

Incident Action Plan

Incident: BNSF Galena Derailment

03/25/2015 0700 CDT
PP
CTP

Prepared By: Anton Avguchenko

Period: #10: 03/17/2015 07:00 CDT - 03/19/2015 07:00 CDT

Version Name: P010V02

Approved By

Organization

Name

Signature

U.S. EPA REGION 5

PAUL RUECH

[Signature]

BNSF

Charles Thomas

[Signature]

TO DAVIESS EMA

CHARLES REVERSON

[Signature]

Incident Photo



Included in Action Plan

<input type="checkbox"/>	Incident Forms	<input type="checkbox"/>	Period Forms	<input type="checkbox"/>	Attachments
<input type="checkbox"/>	Include Incident Cover	<input checked="" type="checkbox"/>	ICS 202 - Incident Objectives	<input checked="" type="checkbox"/>	208 Safety Message/Plan
<input type="checkbox"/>	ICS 201-1 - Incident Briefing	<input type="checkbox"/>	ICS 203 - Organization Assignment Lists	<input checked="" type="checkbox"/>	205a - Communications List
<input type="checkbox"/>	ICS 201-2 - Summary of Current Actions	<input checked="" type="checkbox"/>	ICS 204 - Assignment List(s)	<input checked="" type="checkbox"/>	Oil Spill Contingency Plan
<input type="checkbox"/>	ICS 201-3 - Organization Chart	<input checked="" type="checkbox"/>	ICS 205 - Communication Plan	<input checked="" type="checkbox"/>	Water Influx Contingency Plan
<input type="checkbox"/>	ICS 201-4 - Resource Summary	<input checked="" type="checkbox"/>	ICS 206 - Medical Plan	<input checked="" type="checkbox"/>	209 Situational Update
<input type="checkbox"/>	ICS 201-5 - Site Safety and Control Analysis	<input checked="" type="checkbox"/>	ICS 207 - Organizational Chart	<input checked="" type="checkbox"/>	Site Map
<input type="checkbox"/>	Reactive Phase Weather Report	<input checked="" type="checkbox"/>	ICS 208 - Site Safety Plan(s)	<input checked="" type="checkbox"/>	ICS 203 OP10
<input type="checkbox"/>	Reactive Phase Notifications	<input type="checkbox"/>	ICS 211P - Check In List	<input checked="" type="checkbox"/>	Site Road map
		<input type="checkbox"/>	ICS 213 - General Message(s)	<input checked="" type="checkbox"/>	Plan Tracker
		<input checked="" type="checkbox"/>	ICS 214 - Activity Logs	<input checked="" type="checkbox"/>	ICS 233 - Open Action Items
		<input type="checkbox"/>	ICS 215 - Operational Planning Worksheet		
		<input checked="" type="checkbox"/>	ICS 230 - Meeting Schedule		
		<input type="checkbox"/>	Weather Report		
		<input type="checkbox"/>	Incident Critique		

ICS 202: Incident Objectives

Incident: BNSF Galena Derailment	Prepared By: Anton Avguchenko
Period: #10: 03/17/2015 07:00 CDT - 03/25/2015 07:00 CDT	Version Name: 03/17/2015 08:25 CDT

Objective(s)

1. SAFETY OF RESIDENTS & RESPONDERS
2. PROTECT ENVIRONMENT AND CONTROL RUNOFF
3. STABILIZE SITE
4. MONITOR ENVIRONMENTAL CONDITIONS/IMPACTS
5. FACILITATE INVESTIGATIONS & PRODUCT RECOVERY/REMEDIATION
6. RESTORE DERAILMENT SITE
7. ENSURE SAFE AND EFFECTIVE TRACK OPERATIONS
8. ENSURE CONSTRUCTION OF SITE CONTROLS

Operational Period Command Emphasis

INITIATE TRANSITION OF REGULATORY OVERSIGHT FROM USEPA TO ILEPA
 RELOCATE COMMAND POST
 COMMUNICATE HEALTH AND SAFETY PLAN TO ALL RESPONDERS
 TRAIN RESPONDERS ON-TRACK SAFETY
 COMMUNICATE CONTINGENCY PLAN TO ALL RESPONDERS
 CONTINUE COMMUNICATIONS AMONG RESPONDERS AND RESPONSE AGENCIES
 IMPROVE COMMON OPERATING PICTURE AT THE SITE AND THE ICP
 UPDATE THE CONTAINMENT/CONTINGENCY PLAN

LIMITATIONS/CONSTRAINTS

TRACK WINDOWS

General Situational Awareness

ENVIRONMENTAL SAMPLING CONTINUES (SURFACE WATER ONLY)
 INSTALLATION OF SHEETPIILING WALL
 DELIVERY OF WATER TREATMENT SYSTEM
 COMMAND SITE HAS NIGHTTIME SECURITY ONLY
 WORK SITE STILL HAS 24HR SECURITY

ORGANIZATION ASSIGNMENT LIST (ICS 203)

1. Incident Name: BNSF GALENA DERAILMENT		2. Operational Period 10: Date From: 3/17/15 Date To: 3/25/15 Time From: 0700 HRS Time To: 0700 HRS		
3. Incident Commander(s) and Command Staff:		7. Operations Section:		
IC/UCs	Paul Ruesch	Chief	BNSF	Greg Jeffries
BNSF RR	Charles Thomas	Deputy	US EPA	Jeff Kimble
Jo Daviess County	Chuck Pedersen	Deputy	BNSF	Doug McReynolds
Safety Officer	Day: Cory Sippel Night: Sergio Marquez	Deputy	Pinnacle	Jim Holland
Assistant Safety	Rich Forte	Branch	Remediation	
		Branch Director	Pinnacle	Jim Holland
		Deputy		
4. Agency/Organization Representatives:		Branch	Restoration	
US F&WS	Kraig McPeek	Branch Director	BNSF	Greg Jeffries
Illinois DNR	Cpt. Laura Petreikis	Division/Group		
OSHA	Eric Christensen	Division/Group		
City of Galena	Mark Moran	Division/Group		
Jo Daviess Sheriff	Kevin Turner	Branch	Hydraulic Containment	
US Army Corps of Engineers		Branch Director	Hulcher	Bob Winkleman
		Deputy	JF Brennan Marine	Gary Dondlinger
5. Planning Section:		Division/Group		
Chief	Laura Weems	Division/Group		
Deputy	Bobby Aliberti	Division/Group		
Resources Unit		Branch	Recovery	
Situation Unit		Branch Director	Pinnacle	Jim Holland
Documentation Unit		Deputy	Sunpro	John Spealman
Demobilization Unit		Division/Group		
Technical Specialists	Chris Kuhlman, PhD (Tox) – offsite	Division/Group		
USCG Strike Team	Rich Forte	Branch	Environmental Monitoring	Jeff Bonsteel
Environmental Unit Leader	Scott Kluska	Division/Group	Soil	Arcadis
		Division/Group	Air	CTEH
6. Logistics Section:		Division/Group	Water	Pinnacle/TRC
Chief	Leslie Campbell	Division/Group	Oversight	EPA
Deputy	Andrew Jones	Site Security		
Support Branch		Local Police	Bryan Madden	
Director		BNSF Resource Protection	Bryan Madden	
Supply Unit				
Facilities Unit		8. Finance/Administration Section:		
Ground Support Unit		Chief	BNSF RR	

ORGANIZATION ASSIGNMENT LIST (ICS 203)

1. Incident Name: BNSF GALENA DERAILMENT		2. Operational Period 10: Date From: 3/17/15 Date To: 3/25/15 Time From: 0700 HRS Time To: 0700 HRS	
Service Branch		Deputy	
Director		Time Unit	
Communications Unit		Procurement Unit	
Medical Unit		Comp/Claims Unit	
Food Unit		Cost Unit	
9. Prepared by: Name: <u>Ashley Reardon</u>		Position/Title: _____ Signature: _____	
ICS 203	IAP Page _____	Date/Time: <u>3/16/2015 1630 HRS</u>	

ICS 204 - Assignment List

Incident:	BNSF Galena Derailment	Period:	#10: 03/17/2015 07:00 CDT - 03/25/2015 07:00 CDT	
Branch:	REMEDIATION	Division / Group:	REMEDIATION	
Prepared By:	Anton Avguchenko	Version Name:	03/18/2015 08:58 CDT	
Unit:				
Tactical Objective				
Screening site for contamination, removing contaminated soil, and backfilling soil.				
Assignments				
Determine re-charge rate and removal schedule.				
Develop water treatment, discharge, and injection plan(s).				
Ensure required permits are obtained. Mobilize water treatment system.				
Resources Required				
Resource Identifier	Leader	# of Units	Contact	Notes
BNSF Contractor	Pinnacle - Jim Holland		612-669-5713	Pinnalce/Sunpro
Assignment Progress and Issues				
All workers must read and sign ICS 208 Site Safety Plan and acknowledge worker health and safety briefing prior to work. For information about hospitals and communications, see ICS 205 Communications Plan and ICS 206 Medical Plan.				
Contact Workzone Coordinator for operational information or issues: Deputy Ops Section Chief Jim Holland 612-669-5713				
In the event of an emergency or a fouling of the track, notify the EIC immediately: 563-213-6933 - site trailer number				
Location of Work				
In the Impact Zone.				

ICS 204 - Assignment List

Incident: BNSF Galena Derailment	Period: #10: 03/17/2015 07:00 CDT - 03/25/2015 07:00 CDT			
Branch: HYDRAULIC CONTAINMENT	Division / Group: HYDRAULIC CONTAINMENT			
Prepared By: Anton Avguchenko	Version Name: 03/18/2015 09:05 CDT			
Unit:				
Tactical Objective				
Put in place engineering controls to contain any spilled crude and protect the environment.				
Assignments				
Mobilize and stage equipment.				
Prep sheeting panels.				
Drive sheeting panels.				
Demobilize equipment as applicable.				
Assess and install additional containment options as needed.				
Resources Required				
Resource Identifier	Leader	# of Units	Contact	Notes
Hulcher	Bob Winkleman		515-480-1126	Sheetpiling/ Alternative containment
JF Brennan Marine	Gary Dondlinger		608-792-6683	Sheetpile
Assignment Progress and Issues				
All workers must read and sign ICS 208 Site Safety Plan and acknowledge worker health and safety briefing prior to work. For information about hospitals and communications, see ICS 205 Communications Plan and ICS 206 Medical Plan.				
Contact Workzone Coordinator for operational information or issues: Deputy Ops Section Chief Jim Holland 612-669-5713				
In the event of an emergency or a fouling of the track, notify the EIC immediately: 563-213-6933 - site trailer number				
Location of Work				
Impact Zone.				

ICS 204 - Assignment List

Incident:	BNSF Galena Derailment	Period:	#10: 03/17/2015 07:00 CDT - 03/25/2015 07:00 CDT	
Branch:	RECOVERY	Division / Group:	RECOVERY	
Prepared By:	Anton Avguchenko	Version Name:	03/18/2015 09:09 CDT	
Unit:				
Tactical Objective				
Conduct vacuum operations and provide/maintain boom containment.				
Assignments				
Utilize vacuum trucks to collect pooled/residual product in the impact zones and containerize in frac tanks staged in the support zone.				
Remove all ice from, inspect, and maintain containment/soft boom.				
Use sorbent material as needed.				
Resources Required				
Resource Identifier	Leader	# of Units	Contact	Notes
Vac Trucks	Sunpro - John Spealman	1	309-368-5911	
Frac Tanks	Sunpro - John Spealman	17	309-368-5911	
Boom Management	Pinnacle - Jim Holland		612-669-5713	
Air Boats	Pinnacle - Jim Holland	4	612-669-5713	
Assignment Progress and Issues				
All workers must read and sign ICS 208 Site Safety Plan and acknowledge worker health and safety briefing prior to work. For information about hospitals and communications, see ICS 205 Communications Plan and ICS 206 Medical Plan.				
Contact Workzone Coordinator for operational information or issues: Deputy Ops Section Chief Jim Holland 612-669-5713				
In the event of an emergency or a fouling of the track, notify the EIC immediately: 563-213-6933 - site trailer number				
Location of Work				
In the Impact Zone (land and water) and surrounding Support Zone.				

ICS 204 - Assignment List

Incident:	BNSF Galena Derailment	Period:	#10: 03/17/2015 07:00 CDT - 03/25/2015 07:00 CDT	
Branch:	SITE SECURITY	Division / Group:	SITE SECURITY	
Prepared By:	Anton Avguchenko	Version Name:	03/17/2015 08:26 CDT	
Unit:				
Tactical Objective				
Maintain site control for the Incident Command Post and Impact/Support Zones.				
Assignments				
Issue personnel badges at Trailer #1.				
Visually inspect badges and record entry of all personnel without company affiliation attached to vehicles at access points.				
Assist with traffic flow as requested.				
Resources Required				
Resource Identifier	Leader	# of Units	Contact	Notes
Local Police	Bryan Madden	4	815-670-2719	
BNSF Resource Protection	Bryan Madden	2	815-670-2719	
Assignment Progress and Issues				
ICP security at night only.				
In the event of an emergency or a fouling of the track, notify the EIC immediately: 563-213-6933 - site trailer number				
Location of Work				
At the Incident Command Post and access points to incident site.				

ICS 204 - Assignment List

Incident:	BNSF Galena Derailment	Period:	#10: 03/17/2015 07:00 CDT - 03/25/2015 07:00 CDT	
Branch:	RESTORATION	Division / Group:	RESTORATION	
Prepared By:	Anton Avguchenko	Version Name:	03/18/2015 09:57 CDT	
Unit:				
Tactical Objective				
Conduct track restoration operations.				
Assignments				
Track restoration.				
Maintain on-track safety buffer with visual barrier.				
Resources Required				
Resource Identifier	Leader	# of Units	Contact	Notes
BNSF	Greg Jeffries		612-868-7995	
Assignment Progress and Issues				
<p>All workers must read and sign ICS 208 Site Safety Plan and acknowledge worker health and safety briefing prior to work.</p> <p>For information about hospitals and communications, see ICS 205 Communications Plan and ICS 206 Medical Plan.</p> <p>Ensure the temporary barrier does not foul the track.</p> <p>Contact Workzone Coordinator for operational information or issues: Deputy Ops Section Chief Jim Holland 612-669-5713</p> <p>In the event of an emergency or a fouling of the track, notify the EIC immediately: 563-213-6933 - site trailer number</p>				
Location of Work				
Incident site				

ICS 204 - Assignment List

Incident: BNSF Galena Derailment	Period: #10: 03/17/2015 07:00 CDT - 03/25/2015 07:00 CDT			
Branch: ENVIRONMENTAL MONITORING	Division / Group: ENVIRONMENTAL MONITORING			
Prepared By: Anton Avguchenko	Version Name: 03/18/2015 09:58 CDT			
Unit:				
Tactical Objective				
Conduct soil, water, and air sampling in support of operations.				
Assignments				
Soil sampling in the impact zone per Soil Sampling Plan, as needed.				
Water sampling upstream and downstream per the Water Sampling Plan.				
Conduct real-time air monitoring on-site in support of operations per Air Sampling Plan/Worker Exposure Plan.				
Submit sampling plans prior to task, as needed.				
Resources Required				
Resource Identifier	Leader	# of Units	Contact	Notes
Arcadis	Jeff Bonsteel	3		
US EPA Contractors	Paul Ruesch	2		
CTEH	Kyle Bennett	1		
Assignment Progress and Issues				
<p>See attached Environmental Plan Tracker and Updates to Environmental Plan package. Complete environmental plan package can be found on cteh.sharefile.com - contact Anton Avguchenko 501-258-0933 for access.</p> <p>Contact Workzone Coordinator for operational information or issues: Deputy Ops Section Chief Jim Holland 612-669-5713</p> <p>In the event of an emergency or a fouling of the track, notify the EIC immediately: 563-213-6933 - site trailer number</p>				
Location of Work				
In the impact Zone and Support Zone.				

ICS 205: Communication Plan

Incident: BNSF Galena Derailment	Prepared By: Anton Avguchenko
Period: #10: 03/17/2015 07:00 CDT - 03/25/2015 07:00 CDT	Version Name: 03/18/2015 10:08 CDT

Radio Listings

Zone Grp.	Ch #	Function	Channel Name / Trunked Radio System Talkgroup	Assignment	RX Freq N or W	RX Tone / NAC	TX Freq N or W	TX Tone / NAC	Mode (A, D or M)	Remarks
	66			OPERATIONS						

Phone Listings

Name	Title	Phone	Radio	Email	Other
Andrew Jones	Deputy Logistics Section Chief	501-516-7780	<input type="checkbox"/>	ajones@cteh.com	
Anton Avguchenko	IAP Development	501-258-0933	<input type="checkbox"/>	areardon@cteh.com	
Brian Brackmeyer	Liaison Officer		<input type="checkbox"/>		
Charles Thomas	Incident Commander - BNSF	817-372-4623	<input type="checkbox"/>	charles.thomas@bnsf.com	
Chris Thessing	GIS/Aerial Imagery	501-515-1228	<input type="checkbox"/>	cthessing@cteh.com	
Chuck Pedersen	Incident Commander - Jo Daviees Cty	815-990-6702	<input type="checkbox"/>	ema@jodaviess.org	
Cory Sippel	Safety Officer	206-818-0267	<input type="checkbox"/>		
Dave Estep	Manager, Sunpro	708-653-2559	<input type="checkbox"/>		
Derek Lampkin	Director, Hazardous Materials Safety	612-760-1365	<input type="checkbox"/>	Derek.Lampkin@BNSF.com	Night
Doug McReynolds	Deputy Env Unit Lead	817-304-2031	<input type="checkbox"/>	doug.mcreynolds@bnsf.com	
Doug Reynolds	Manager, Hazardous Materials Safety		<input type="checkbox"/>		
Dr. Chris Kuhlman	Toxicology	501-247-3871	<input type="checkbox"/>	ckuhlman@cteh.com	
Eric Callahan	Data Management - CTEH	501-366-1525	<input type="checkbox"/>	ecallahan@cteh.com	
Greg Jeffries	Operations Section Chief	612-868-7995	<input type="checkbox"/>	gregory.jeffries@bnsf.com	
Heriberto Leon	Liaison Officer		<input type="checkbox"/>		
Jason Braun	Vac Team One	651-398-0415	<input type="checkbox"/>		
Jeff Bonsteel	Environmental Monitoring	518-727-9707	<input type="checkbox"/>	Jeffrey.Bonsteel@arcadis-us.com	
Jeff Kimble	Operations Section Deputy Chief	734-740-9013	<input type="checkbox"/>	kimble.jeffrey@epa.gov	
Jim Holland	Deputy Operations Section Chief	612-669-5713	<input type="checkbox"/>	j holland1@pineng.com	
Kyle Bennett	CTEH PM (Community Air)	501-747-6787	<input type="checkbox"/>	kbennett@cteh.com	
Laura Weems	Planning Section Chief	832-470-5557	<input type="checkbox"/>	lweems@cteh.com	
Leslie Campbell	Logistics Section Chief		<input type="checkbox"/>		
Paul Ruesch	Incident Commander - EPA	312-919-4382	<input type="checkbox"/>	brown.jaime@epa.gov	
Ramon Mendoza	Operations Section	312-802-1409	<input type="checkbox"/>	mendoza.ramon@epa.gov	Night
Rich Forte	Assistant Safety Officer	609-439-3220	<input type="checkbox"/>	richard.e.forte@uscg.mil	
Stavros Emmanouil	Deputy Env Unit Lead	312-802-0667	<input type="checkbox"/>	emmanouil.stavros@epa.gov	

Additional Comments

All communications from the field to the Command Post will be made using cellular phones.

ICS 206: Medical Plan

Incident: BNSF Galena Derailment	Prepared By: Ashley Reardon
Period: #10: 03/17/2015 07:00 CDT - 03/25/2015 07:00 CDT	Version Name: 03/17/2015 08:26 CDT

First Aid Stations

Name	Location	EMT On Site	Phone	Radio
Incident Command Post Trailer #1	IL 84, US 20 Bridge. Near 200 Spring Street, Galena, IL			
Hulcher Staging Area (South/East end of derailment)	Near rail crossing at 1500 South River Road, Galena, IL			

Transportation (Ground and/or Air Ambulance Services)

Name	Location	Paramedics	Phone	Radio
Mt Carroll Ambulance	206 E Seminary St Mt Carroll, IL	No		

Hospitals

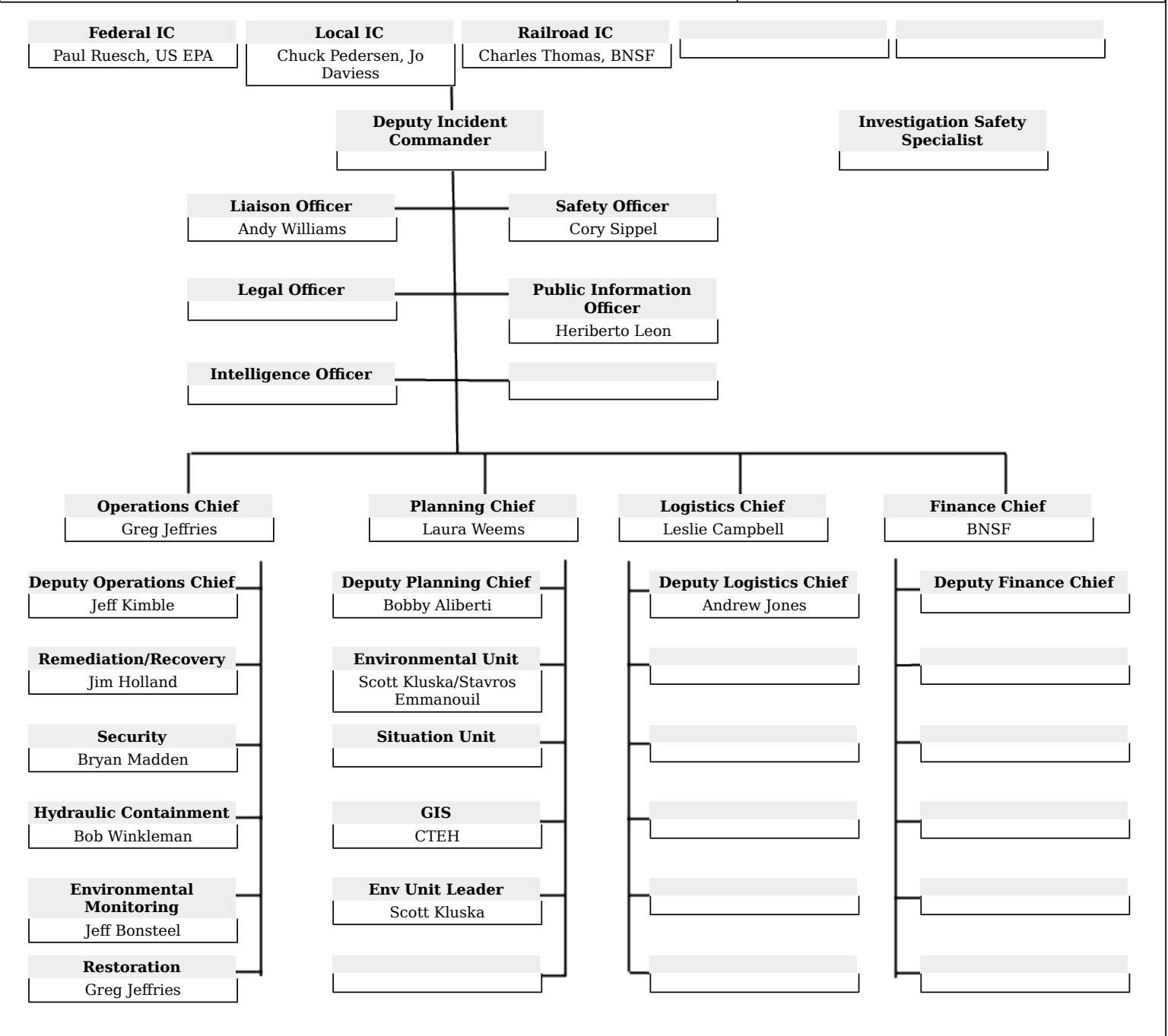
Name	Location	Burn Center	Helipad	Phone	Radio
Midwest Medical Center	1 Medical Center Drive, Galena, IL	No	Yes	815-777-1340	
OSF Saint Anthony Medical Center	5666 East State St, Rockford, IL	Yes	Yes	815-226-2000	
Mercy Medical Center	250 Mercy Drive, Dubuque, IA	No	Yes	563-589-8000	

Special Medical Emergency Procedures

Nearest burn center is in Rockford, IL at St. Anthony's. There are helipads at both Midwest Medical Center in Galena and at St. Anthony's in Rockford. Announce location and number of injured. Report nature of injuries. Treat injured to your level of training. Request EMS if required. All injuries will be documented and reported through proper chain of command. All transported injured should bring copy of SDS (copies available in ambulance staged in work area). First report of injury forms will be completed as soon as practicable and will be turned into Safety Officer. Safety Officer will work with Operations to conduct investigation.

ICS 207: Organizational Chart

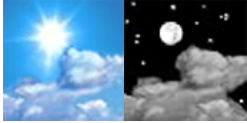
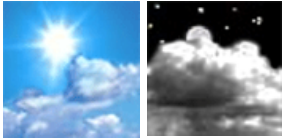
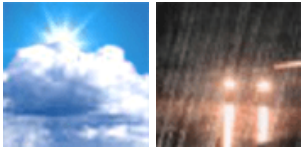
Incident: BNSF Galena Derailment	Prepared By: Ashley Reardon
Period: #10: 03/17/2015 07:00 CDT - 03/25/2015 07:00 CDT	Version Name: 03/18/2015 12:05 CDT



SAFETY MESSAGE/PLAN (ICS 208)

1. Incident Name: BNSF GALENA DERAILMENT	2. Operational Period: Date From: 3/17/2015 Date To: 3/25/2015 Time From: 0700 Time To: 0700
3. Safety Message/Expanded Safety Message, Safety Plan, Site Safety Plan: -The sheet pile wall operations are scheduled to commence. In the event of an emergency or injury all sheet pile operations will cease and the supervisor will immediately notify the EIC. The EIC will contact the Resource Operation Center (800) 832-5452. If the emergency is related to an injury the supervisor will contact the ASO and request use of the UTV for transport of the injured party. If the emergency is related to environmental release (air or product) all crew involved in the sheet pile operation will evacuate to a muster point. The muster point will be just north of the scrapping area "the parking lot". -All personnel are reminded to stay clear of the sheet pile wall installation area unless you are directly involved in the operation. -The Exclusion Zone has been reduced to the "pool area". FRC is only required during hot work operations, vac truck operations, and any work on or around the frac tanks. -In the event you foul the track or see the track is fouled, contact the EIC without delay. -As a reminder, the fouling zone is to remain free and clear of personnel unless authorized to conduct work within the fouling zone. Anyone working within the 4' fouling zone is required to be listed on the Form B. -Notification Procedures for trains transiting the incident site: EIC will notify the ASO of inbound train. ASO will ensure the work area is cleared. ASO will notify EIC once work area is cleared. EIC will notify ASO when clear to continue operations. EIC Points of contact: Primary-Dan Rankin: 817-308-6900 Secondary-Brian Ferencak: 817-701-8181 ASO Point of contact: Day On-site ASO contact: John Bafia 609-351-8522 Night On-site ASO contact: Eric Tomaszewski 609-351-8521 SOFR Corey Sipple: 206-818-0267 ASOFR Rich Forte: 609-439-3220 -Anyone working within the 4' fouling zone is required to be listed on the Form B. The EIC will notify the supervisors of those working in the 4' fouling zone of an inbound train. -There is NO SMOKING on the site. Smoking is only authorized in the designated areas (Near the Port O Potties to the west of the site and 50' east of the furthest frac tank). -As road conditions worsen due to traffic, all personnel are reminded to maintain a safe speed while traveling to and from the work site. Also be on the lookout for increased foot traffic on Pilot Knob Rd. -All personnel are reminded to ensure personal decon is conducted prior to eating, drinking, smoking, and departing the site.	
4. Site Safety Plan Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Approved Site Safety Plan(s) Located At:	
5. Prepared by: Name: Rich Forte Position/Title: ASO Signature: _____	
ICS 208	IAP Page _____ Date/Time: 3/16/2015 1450

1. Incident Name Galena Derailment		2. Operational Period (Date/Time) From: 03/17/15 0700 To: 03/25/15 0700		Time of Report 20150316 1500		INCIDENT STATUS SUMMARY ICS 209-OS	
3. Spill Status (Estimated, in Barrels) [Ops & EUL/SSC]				8. Equipment Resources [RUL]			
Source Status: Remaining Potential (gal): _____				Description			
X Secured Rate of Spillage (bb/hr): _____				Ordered			
<input type="checkbox"/> Unsecured Since Last Report				Available/Staged			
Volume Spilled				Assigned			
Mass Balance/Oil Budget GALLONS:				Out of Service			
Recovered from cars		223,174		Airboats		4	
Recovered from ground		Oil – 1,238; oil/water – 17,777		Excavators		2	
Evaporation		19,015		Sidebooms		2	
Natural Dispersion				Track Loaders		1	
Burned				Boom (ft.)		2650 ft	
Floating, Contained				Rubber Tire Loaders		700 ft	
Floating, Uncontained				Vacuum Trucks		3	
Onshore				Frac Tanks		17	
Total recovered product accounted for:		242,189		Trackhoe		6	
				Pile driver		4	
4. Waste Management (Estimated) [Ops/Disposal]							
	Recovered from cars	Recovered from ground	Stored	Disposed			
Oil (gal)			222,502 gal				
Oily Liquids (gal)			27,866 gal				
From tank cleaning & decon (gal)			8,180 gal				
5. Shoreline Impacts (Estimated, in miles) [PSC/EUL/SSC]				9. Personnel [RUL]			
Degree of Oiling	Affected	Cleaned	To Be Cleaned		Description		
Light					People in Cmd. Post		
Medium					People in the Field		
Heavy					Total People On Scene		
Total					Federal		
6. Wildlife Impacts [Ops/Wildlife Br.]				State			
Numbers in () indicate subtotal that are threatened/endangered species.				Local			
	Captured	Cleaned	Released	DOA	Euth.	Other	
Birds	0	0	0	0	±	±	
Mammals	0	0	0	0	±	±	
Reptiles	0	0	0	0	±	±	
Fish	0	0	0	0	±	±	
					±	±	
Total	0	0	0	0	±	±	
7. Safety Status [Safety Officer]				Contract Personnel			
	Since Last Report	Total		Volunteers			
Responder Injury	0	0		TOTALS			
Public Injury	0	0		21			
Volunteer Injury				115			
				Total Response Personnel from all Organizations:			
				136			
11. Prepared by: (Situation Unit Leader) Laura Weems, PSC				10. Special Notes			
INCIDENT STATUS SUMMARY				Zero (0) wildlife impacts reported. Zero (0) illness total since incident occurred. See attached sheets for updates in weather and river levels.			
				ICS 209-OS			

WEATHER – FORECASTS 3/17/15 – 3/19/15	<p>3/17/15 Tuesday Sunny, with a high near 46. North wind around 15 mph with gusts as high as 20 mph. Tuesday Night Partly cloudy, with a low around 23.</p> 
	<p>3/18/15 Wednesday Mostly cloudy, with a high near 48. Wednesday Night Mostly cloudy, with a low around 31.</p> 
	<p>3/19/15 Thursday Partly sunny, with a high near 50. Thursday Night Slight chance of rain. Mostly cloudy, with a low around 34.</p> 
INJURIES	No additional recorded injuries at site
WILDLIFE IMPACTS	No wildlife impacts to date
MISSISSIPPI RIVER LEVELS	<p>3/17/15 at 10.7 feet Dubuque gauge (NW of Galena) at highest reading then decreases over time (NW of Galena); (flood 17')</p> <p>3/17/15 at 9.8 feet at Bellevue gauge (SE of Galena); Predict 3/17/15 at 9.9 feet; (flood 17')</p> <p>Gauge graphs are on next page</p>

ICS 214: Activity Log

Incident: BNSF Galena Derailment	Prepared By:
Period: #10: 03/17/2015 07:00 CDT - 03/25/2015 07:00 CDT	Version Name: 03/17/2015 08:26 CDT
Unit:	

Summary of Actions & Events

Date	Unit	Start Time	End Time	Action / Event / Notes

ICS 230: Daily Meeting Schedule

Incident: BNSF Galena Derailment			Prepared By: Anton Avguchenko	
Period: #10: 03/17/2015 07:00 CDT - 03/25/2015 07:00 CDT			Version Name: 03/17/2015 08:26 CDT	
Meetings				
Meeting Name	Date / Time	Purpose	Attendees	Location
Ops Briefing/Derailment Site Safety Briefing	03/17/2015 07:00 CDT		Command and General Staff, Division Supervisors	Incident Site at Support Zone. Please carpool to the extent practical. Meet at ICP at 0615.
Unified Command Objectives/Command and General Staff Meeting	03/17/2015 15:00 CDT			
Situational Update/ Supervisors Meeting	03/17/2015 18:30 CDT			
Tactics Meeting	03/18/2015 08:00 CDT			
Planning Meeting	03/18/2015 13:00 CDT			
Situational Update/ Supervisors Meeting	03/18/2015 18:30 CDT			
FIELD MEETINGS				
Derailment Site Safety Briefing & Ops Briefing	03/17/2015 19:00 CDT			
Derailment Site Safety Briefing & Ops Briefing	03/18/2015 07:00 CDT			
Derailment Site Safety Briefing & Ops Briefing	03/18/2015 19:00 CDT			

1. Incident Name: Galena Train Derailment		INCIDENT OPEN ACTION TRACKER ICS-233 (Rev 07-12)						
2. No.	3. Item	4. POC	Requester	6. Start Date	7. Status	8. Target Date	9. Actual Date	10. Plan?
12	Comprehensive plan tracking	OSC	UC	9-Mar-15	Ongoing	10-Mar-15		y
17	Develop water treatment, discharge, and injection plan(s) (Water Treatment Plan)	Arcadis	UC	10-Mar-15	In progress	10-Mar-15		y
22	Preliminary Remediation Alternative Plan	Arcadis/BNSF	UC	13-Mar-15	In progress	16-Mar-15		y
23	Delivery of results for borings along planned sheet wall	Arcadis/CTEH	UC	13-Mar-15	In progress			
24	Need a report on resources broken down by task on-site (Environmental vs Track)	Logistics	UC	13-Mar-15	Ongoing			
26	County EMA needs environmental summary	EUL	UC	16-Mar-15	In progress			
29	Oil Spill Plan	Ops	UC	13-Mar-15	In progress	15-Mar-15		y
30	Flooding Plan (Sandbag/Clay barrier)	Ops	UC	13-Mar-15	In progress	15-Mar-15		y
32	Road maintenance - Bike Path	Pinnacle Eng.	UC	7-Mar-15	Ongoing			
33	Traffic control and road maintenance - Pilot Knob	Pinnacle Eng.	UC		Ongoing			
34	Create a calendar to 230 meeting schedule	CTEH	UC	13-Mar-15	In progress	13-Mar-15		
35	Update the 205.a Communications List	CTEH	UC	13-Mar-15	Ongoing	13-Mar-15		
36	8.5 x 11 PDF of large site over view v3/13/2015	CTEH	UC	13-Mar-15	Complete	13-Mar-15		
37	Command post relocation plan	BNSF	UC	15-Mar-15	In progress	17-Mar-15		y
38	Make HASP available at Badging station	Arcadis/CTEH	BNSF	16-Mar-15	Complete			
39	Update imagery folder in sharefile	CTEH	UC	16-Mar-15	Ongoing			
40	Develop regulatory oversight transition plan	USEPA	UC	16-Mar-15	In progress			
41	Attach Environmental Plan Tracker to the IAP	CTEH	UC	16-Mar-15	Ongoing			

ICS 205a - Communications List

Organization Name	Last Name	First Name	Position/Title	Cell Phone	Email	
Arcadis	Aliberti	Bobby	Planning	(850) 321-0932		Assigned
	Bonsteel	Jeff	Environmental	(518) 727-9707	Jeffrey.bonsteel@arcadis-us.com	Assigned
	Butcher	Matthew	Counsel	(206) 399-4426		Demobilized
	Eckert	Richard	Environmental Unit	(312) 315-3428		Demobilized
	Ethen	Sheridan	Environmental	(763) 234-3487	Sheridan.ethen@arcadis-us.com	Assigned
	Evans	Bruce	Environmental	(262) 424-8335	Bruce.evans@arcadis-us.com	Assigned
	Eyerdome	Timothy	Environmental	(234) 248-9087	Timothy.eyerdome@arcadis-us.com	Demobilized
	Grogg	John	Environmental	(317) 771-5512	John.grogg@arcadis-us.com	Demobilized
	Heap	Marie	Environmental - Waste Management	(317) 372-0986	marie.heap@arcadis-us.com	Assigned
	Kernan	Nate	Environmental	(585) 217-3373	Nathan.kernan@arcadis-us.com	Assigned
	Krevinghaus	Andrea	Environmental Engineer	(810) 841-1474	Andrea.krevinghaus@arcadis-us.com	Assigned
	Lapiers	Spencer	Environmental Unit	(714) 321-5413		Demobilized
	McKendrick	Claire	Environmental Unit	(847) 373-6958		Demobilized
	McManus	Andrew	Incident Coordinator	(813) 298-2840		Assigned
	Merkle	Kurt	Site Safety	(215) 534-0435		Demobilized
	O'Brien	Maureen	Environmental	(303) 579-9210	maureen.obrien@arcadis-us.com	Demobilized
	Parker	Jackson	Environmental Unit	(260) 579-1697		Demobilized
	Payne	Frederick	Environmental Unit	(248) 376-5129		Demobilized
	Schettler	Megan	Environmental Unit	(402) 889-1302		Demobilized
	Tokarski	Adam	Environmental Unit	(312) 735-0059		Demobilized
BNSF	Udvig	Todd	Environmental	(612) 373-0215	Todd.udvig@arcadis-us.com	Demobilized
	Woods	Linda	Environmental	(865) 585-8187	Nichole.woods@arcadis-us.com	Assigned
	Boyd	Eric	Counsel	(708) 574-2619		Demobilized
	Engdahl	Mark	Environmental Unit	(206) 465-5976		Assigned
	Jeffries	Greg	Operations Section Chief	() -		Assigned
	McReynolds	Doug	Incident Command	(817) 304-2031	Doug.mcreynolds@bnsf.com	Assigned
	Reid	Clay	Operations	() -		Demobilized
	Stegman	Allen	Incident Command	(817) 692-8235	allen.stegman@bnsf.com	Demobilized
CTEH	Thomas	Charles	Incident Commander	(817) 372-4623	Charles.thomas@bnsf.com	Assigned
	Winslow	Nick	Incident Commander	(406) 202-8051	Dominic.winslow@bnsf.com	Assigned
	Avguchenko	Anton	Data Manager	(501) -25-0933	aavguchenko@cteh.com	Assigned
	Bennett	Kyle	ES Project Manager	(501) -74-6787		
	Blankenship	Justin		() -		Assigned
	Callahan	Eric	IT Specialist	(501) -36-1525	ecallahan@cteh.com	Assigned
	Davis	Cory	Principal Consultant	(501) -25-7881	cdavis@cteh.com	Demobilized
		Jason	Environmental Scientist	(501) -96-5531		Demobilized
	Gueringer	Jeremy	Environmental Scientist II	(501) -49-2465		Demobilized

ICS 205a - Communications List

Organization Name	Last Name	First Name	Position/Title	Cell Phone	Email	
CTEH	Head	Sam	Environmental Scientist II	(501) -69-0265		
	Jones	Andrew	Logistics	(501) -51-7780	Ajones@cteh.com	Assigned
	Kendrick	Micah	Environmental Scientist II	(501) 366-8749		Demobilized
	Kluska	Scott	Environmental Unit Lead	(908) 399-8875	skluska@cteh.com	Assigned
	Kuhlman	Chris	TOX	(501) -24-3871	Ckuhlman@cteh.com	Assigned
	Mason	Ashley	Environmental Scientist	() -		Assigned
	Mills	Justin	Environmental Scientist	(501) 366-1714	jmills@cteh.com	Demobilized
	Reardon	Ashley	Data Manager	(501) -24-6691	areardon@cteh.com	
	Richie	Ashley	Environmental Scientist II	(479) -39-9553	Arichie@cteh.com	
	Rownd	Jake		(501) 722-3321		
	Sartain	Travis	Environmental Scientist	(501) 442-6023		Assigned
			ESII	() -		
	Short	Daniel	Env. Specialist II	(501) 416-5700	shortdanielr@gmail.com	Assigned
	Thessing	Christopher	IT Specialist	(501) -51-1228	cthessing@cteh.com	
	Warren	Don	Consultant	(501) -27-7814	Dwarren@cteh.com	Demobilized
	Washburn	Peter	Environmental Scientist	(281) -41-5513	pwashburn@cteh.com	Demobilized
	Weems	Laura	Senior Industrial Hygienist	(832) -47-5557	lweems@cteh.com	At Staging
	Williams	Bailey	W	(501) 516-9060		Demobilized
	Wnek	Shawn	Toxicologist	(501) 258-7132		Demobilized
Environmental Management Services	Conger	Jeff	Operations	(563) 349-3671	Congerpackr4@aol.com	Demobilized
	Dunn	James	Operations	(309) 206-5691	Jamiedunn1992@gmail.com	Demobilized
	Ernst	Steven	Envirnomental	(563) 322-9000	Stjohnsmusic@hotmail.com	Assigned
	Lawver	Norry	Operations	(563) 349-4840		Assigned
	Riendeau	Bobby	Operations	(563) 949-0645	Bobbyriendeau@gmail.com	Demobilized
	Terrells	Larry	Operations	(563) 349-1294	Terrells6@yahoo.com	Demobilized
EPA	Benning	Brad	Deputy Operations Chief	(312) 919-0090		Demobilized
	Brown	Jaime	Incident Commander	(312) 802-0682		Assigned
				(312) -80-0682	brown.jaime@epa.gov	Assigned
	Emmanouil	Stavros	Environmental unit	(312) 802-0667	Emmanouil.stavros@epa.gov	Assigned
	Faryan	Steve	ENVL	(312) -80-0507	faryan.steven@epa.gov	Assigned
	Kimble	Jeff	Deputy Operations Chief	(734) 740-9013		Assigned
	Leon	Heriberto	Public Information Officer	(312) 886-6163		Assigned
	Mendoza	Ramon	On scene coordinator	(312) 802-1409		Assigned
			OPS	(312) -80-1409	mendoza.ramon@epa.gov	Assigned
	Ruesch	Paul	Deputy Incident Commander	(312) 919-4382		Assigned
			PSC	(312) -91-4382	ruesch.paul@epa.gov	Assigned
	Whelan	Ann	Environmental Unit	(312) 404-8522		Demobilized

ICS 205a - Communications List

Organization Name	Last Name	First Name	Position/Title	Cell Phone	Email	
Hulcher	Dill	Ken	Operations	(618) 795-3977		Assigned
	Renfro	Mike	Operations	(901) 619-6494	Mrenfro@hulcher.com	Assigned
Illinois EPA	Curtis	Chuck	Environmental Unit	(847) 544-8707		Assigned
	Kinsley	Blaine	Deputy Incident Commander	(217) 720-1329		Demobilized
	Retzlaff	Mark		(224) 361-6011	mark.retzlaff@illinois.gov	
Illinois IMT	Bingheim	Dennis	Deputy IC	(217) 430-9635		Demobilized
	Bowen	Dan	Incident Commander	(217) 306-5262		Demobilized
	Brackemyer	Brian	Incident Commander	(815) 440-5565		Assigned
	Jennings	Bryan	Assistant Site Safety	(618) 267-5521		Demobilized
	Kazmerski	Gregg	planning	(815) 262-8949	Gregg.kazmerski@illinois.gov	Assigned
	Krebs	George	Incident Commander	(217) 306-3537		Demobilized
	Shults	Steve	Planning Section Chief	(309) 840-2568	Steve.shults@illinois.gov	Demobilized
	Springer	Bill	Communications Unit Lead	(630) 386-6038		Assigned
Iowa Illinois and Wisconsin	Nickolas	Mark	Operations	(563) 599-1276	M.nickolas@iivengr.com	Assigned
	Winter	Jeff	Operations	(563) 599-1277	J.winter@iivengr.com	Assigned
JF Brennan	Bentzen	Chris		(608) 799-8182		
	Booth	Warren		() -		
	Dondlinger	Gary	Operations	(608) 792-6683	Gdondlinger@jfbrennan.com	Assigned
	Dummer	Jason	Operations	(608) 386-2236	jasondummer@ymail.com	Assigned
	Lindquist	Rick	Operations	(608) 780-5514	Rlindquist@jfbrennan.com	Assigned
	Pontzer	Zach	Operations	(612) 282-3282	Zpontzer@jfbrennan.com	Assigned
	Reggin	Jason	Operations	(507) 459-0017	Jrreggin@yahoo.com	Assigned
	Schulte	Travis		(608) 792-2038		
	Sudol	David	Crane Mechanic	(608) 792-0913	dsudol@jfbrennan.com	Assigned
	Swanson	Steve	Operations	(608) 780-3818	Steve@moderncranservice.com	Assigned
	VonArx	Eric	Operations	(608) 799-2186	Evonarx@jfbrennan.com	Assigned
		Tim		(507) 459-3332		
	Wenger	Tony	Operations	(608) 797-6912	Binoberm@gmail.com	Assigned
	Zenke	Kevin		(608) 792-1140		
MABAS	Klinefelter	Jim	Operations	(224) 856-8810		Demobilized
Matrix Environmental	millers	Seth	Environmental	(320) 444-5137	Millrs@wcec.com	Demobilized
Midwestern Drilling LLC	Hoffman	Eric	Environmental unit	(320) 250-0430		Demobilized
	Schroeder	Dusty	Environmental Unit	(320) 287-2819		Demobilized
NRC	Campbell	Leslie	Logistics	(206) 730-2609	Lcampbell@nrcc.com	Assigned
	Marquez	Sergio	Safety	(510) 772-2944	Smarquez@nrcc	Assigned
	Sippel	Cory	Safety	(206) 818-0267	csippel@nrcc.com	Assigned
OSHA	Bielema	Thomas	Compliance Officer	(309) 264-1981		Demobilized

ICS 205a - Communications List

Organization Name	Last Name	First Name	Position/Title	Cell Phone	Email	
OSHA	Salerno	Barry	Compliance Officer	(309) 648-6108		Demobilized
Pinnacle Engineering	Arnold	Ryan	Environmental	(402) 983-2376	Rarnold@pineng.com	Assigned
	Braulick	Mike	Operations	(763) 229-2434		Assigned
	Brown	Gary	Environmental	(612) 240-2732	Gbrown@pineng.com	Assigned
	Dalley	Dave	Environmental	(507) 358-4649	D.dalley@pineng.com	Assigned
	Dodd	Tim	Environmental	(701) 955-0051	Tdodd@pineng.com	Assigned
	Elswick	Shawn	Environmental Unit	(507) 993-5261		Assigned
	Holland	Jim	Environmental Unit	(612) 669-5713		Assigned
	Lucas	Ben	Environmental Unit	(763) 202-5148		Assigned
	Mason	Zach	Environmental Unit	(763) 280-9873		Assigned
	McElrath	Ryan	Environmental Unit	(612) 834-1159		Assigned
	Moran	Martin	Environmental	(612) 849-7533	Mmoran@pineng.com	Assigned
	Nerison	Ross	Environmental	(651) 373-1086	Rnerison@pieng.com	Assigned
	Richardson	Matt	Operations	(701) 361-1574		Assigned
	Rosdahl	Mike	Environmental scientist	() -		Assigned
	Wallace	Robert	Operations	(763) 248-9553		Assigned
	Witzel	Matt	Environmental Unit	(612) 251-2217		Assigned
Sunpro	Spealman	John	Operations	(309) 368-5912		Assigned
Tetra Tech	Kleist	Andy	EPA START	(715) 456-0128		Demobilized
	Kondreck	Rob	EPA START	(773) 563-3502		Demobilized
	Petererca	Adam	Environmental	(440) 897-9880	Adam.peterca@tetrattech.com	Assigned
	Renner	Cordell	EPA START	(847) 913-2904		Assigned
	Schultz	Karl	Environmental	(262) 227-1049	Kschultz@avantti-environmental.com	Assigned
	Stevens	Aaron	EPA START	(309) 868-9553		Assigned
TRC Solutions	Boecher	Caroline	Environmental	(651) 249-6543	Cboecher@trcsolutions.com	Assigned
	Hibbard	Alex	Environmental	(217) 440-9514	Ahibbard@trcsolutions.com	Assigned
	Wickesberg	Tyler	Environmental	(312) 758-3949	Twickesberg@trcsolutions	
TRG	Bissaillon	Paul	ICS Specialist	(832) 493-1966	Pbissaillon@responsegroupinc.com	Demobilized
	Hentrich	Dave	Resource Unit Lead	(630) 452-9910	Dhentrich@responsegroupinc.com	Demobilized
	Pasquier	John	Situation Unit Lead	(281) 728-2004	Jpasquier@responsegroupinc.com	Demobilized
United Specialty Services	Bush	Brock	Operations	(309) 337-2786	Brockbush@comcast.net	Demobilized
	Goedeke	Bill	Operations	(309) 368-0020	Billgoedeke@comcast.net	Demobilized
USCG	Bafia	John	Assistant Site Safety	(609) 351-8522		Assigned
	Boyles	Joachim	Safety	(609) 351-8511		Assigned
	Dillon	Kathleen	Assistant Site Safety	(518) 788-7264		Assigned
	Forte	Rich	Assistant Safety Officer	(609) 439-3220	Richard.e.forte@uscg.mil	Assigned
	Purcell	Francis	Safety	(937) 248-6122		Assigned

ICS 205a - Communications List

Organization Name	Last Name	First Name	Position/Title	Cell Phone	Email	
USCG	Tomaszewski	Eric	Assistant Site Safety	(609) 351-8521		Assigned
WCEC	Determan	Josh	Operations	(763) 354-8994	Jdeterman@wcec.com	Demobilized
	Farkas	Dustin	Operations	(612) 366-5134		Demobilized
	Frank	Greg	Operations	(612) 237-5464		Demobilized
	Hoag	Ryan	Operations	(763) 229-5374		Demobilized
	Hollen	Josh	Operations	(320) 589-2039		Demobilized
	Holthaus	Jake	Product Recovery	(612) 251-0072		Demobilized
	Hovde	Kayla	Environmental	(320) 808-8949	Khovde@wcec.com	Demobilized
	Miller	Shawn	Operations	(320) 493-3793		Demobilized
	Schmidt	Pete	Operations	(612) 387-4095	Peschmidt1@q.com	Assigned
				(763) 710-5223		Demobilized
	Spaulding	Michael	Operations	(507) 581-0894		Demobilized
	Sunde	Abby		() -		
			Opearations	(715) 571-5550	Asunde@wcec.com	Assigned
	Teff	Cory	Product Recovery	(612) 366-8297		Demobilized
	Timmerman	Marina		() -		
			Operations	(952) 221-0412	Mtimmerman@wcec.com	Assigned
	West	Shawn	Operations	(612) 807-6688		Demobilized
WENCK RESPONSE	Coyle	Jason	Environmental Scientist	(612) -96-2576	jcoyle@wenck.com	Demobilized

BNSF Derailment, Galena, Illinois

Title: Oil Spill Contingency Plan

Version: 2

Date Submitted: 3/15/15

Plan Submitted by: BNSF

Unified Command Sign-off

US EPA:

 3/16/2015

Galena FD:

County EMA:



Illinois EPA:

BNSF:

 3/16/2015

Notes:

Oil Spill Contingency Plan
BNSF
Galena, IL
March 15, 2015
Version 2

Purpose

On behalf of BNSF, this work plan was developed to outline the contingency plan in the event of an oil spill to the Galena River at the emergency response site in Galena, IL (Site). The contingency plan is designed to mitigate the potential impacts that an oil spill may have on surface water; however, the first level of response is to stop the spill from continuing.

Scope

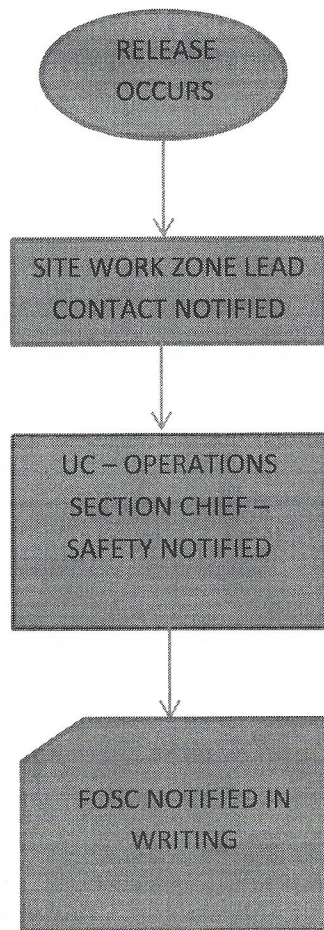
In the event of an oil spill, standard spill containment actions will be employed, including deployment of additional booms within the Galena River, use of absorbent pads both in the River and on-land (as appropriate), and any additional actions required to minimize the extent of a spill and stop the spill from continuing. Booms are currently in place in the River.

Supplemental booms would be placed downgradient of the spill location at various intervals pending the extent of the spill and relative flow of the Galena River.

Notification Procedure

1. The lead contact of the work zone for the shift will take immediate steps to minimize the off-site release of the material.
2. Immediately after directing workers to begin the response, the lead work zone contact will initiate the notification tree.
3. Notifications shall be made to: Unified Command (all), operations section chief, and safety.
4. The FOSC will also be notified in writing (email) of the spill, including: time, amount of release, location, cleanup status, and cause of the spill

NOTIFICATION FLOW CHART



BNSF Derailment, Galena, Illinois

Title: Water Influx Contingency Plan

Version: 2

Date Submitted: 3/16/15

Plan Submitted by: BNSF

Unified Command Sign-off

US EPA:



3/16/2015

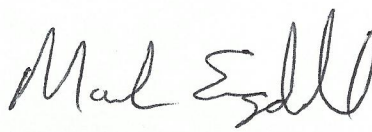
Galena FD:

County EMA:



Illinois EPA:

BNSF:

 3/16/2015

Notes:

Water Influx Contingency Plan, Galena Derailment Site

BNSF

Galena, Illinois

March 16, 2015

Version 2

This contingency plan provides the framework for quickly react to an unforeseen rapid rise in the Mississippi River. The purpose of implementing these actions is to prevent river water from entering the site.

This contingency plan will be initiated if the water level of the Mississippi River/Galena River reaches an elevation above 593.5 ft above mean sea level based on the Action Level Monitoring Gauge placed as shown on the attached sheet. This decision will also be based on United States Army Corp of Engineers (USACE) and National Weather Service (NWS) trend projections for the site and other river gauging stations indicate continued rise in levels. River water has the potential to begin entering the site at River Stage 594.5 ft above mean sea level and is referred to as the action level. Activation of this plan will be at the discretion of the UC and the BNSF Operations Section Chief will be responsible for the implementation of this plan.

The following contingencies have been enacted:

1. As a support to our water control efforts, USACE has agreed to hold Pool 12 at minimum navigation level.
2. Completed site-based surveying to determine berm elevations and potential low spots to the west and north.
3. Track mat pads will remain in place until the sheet pile barrier is installed to provide access for equipment to place additional berm material as discussed below.

The following contingencies will be completed in the event the UC activates the plan:

1. Strengthen the existing berm and extend the berm downstream to tie into the toe of the railroad slope. This is illustrated on the attached exhibit as Berm A.
2. Materials for Berm A would be Super Sack bags filled with sand which would be draped over with poly sheets anchored at the toe of the Super Sack line. The berming activity would extend as indicated on the exhibit and connect to the ends of the extent of the sheet pile.
3. Emergency pond to be dug near location of underflow damn to allow contamination to float and water to be pumped from beneath contamination area

4. Pumping of water from the emergency pond will be accomplished using a 3-inch pump. The emergency water discharge will be directed over the sheet pile wall and into the Galena River within the river boom containment.

Minimum equipment required

Equipment staged

1 three-inch pump

1 three-inch pump*

1 skid steer

1 skid steer**

25 feet inlet hose

50 feet inlet**

75 feet lay-flat discharge hose

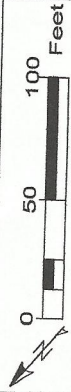
500 feet lay-flat discharge hose*

* Equipment currently staged on staked flat-bed truck at SUNPRO's Schererville, Indiana office (3-hour mobilization time)

** Equipment currently on-site

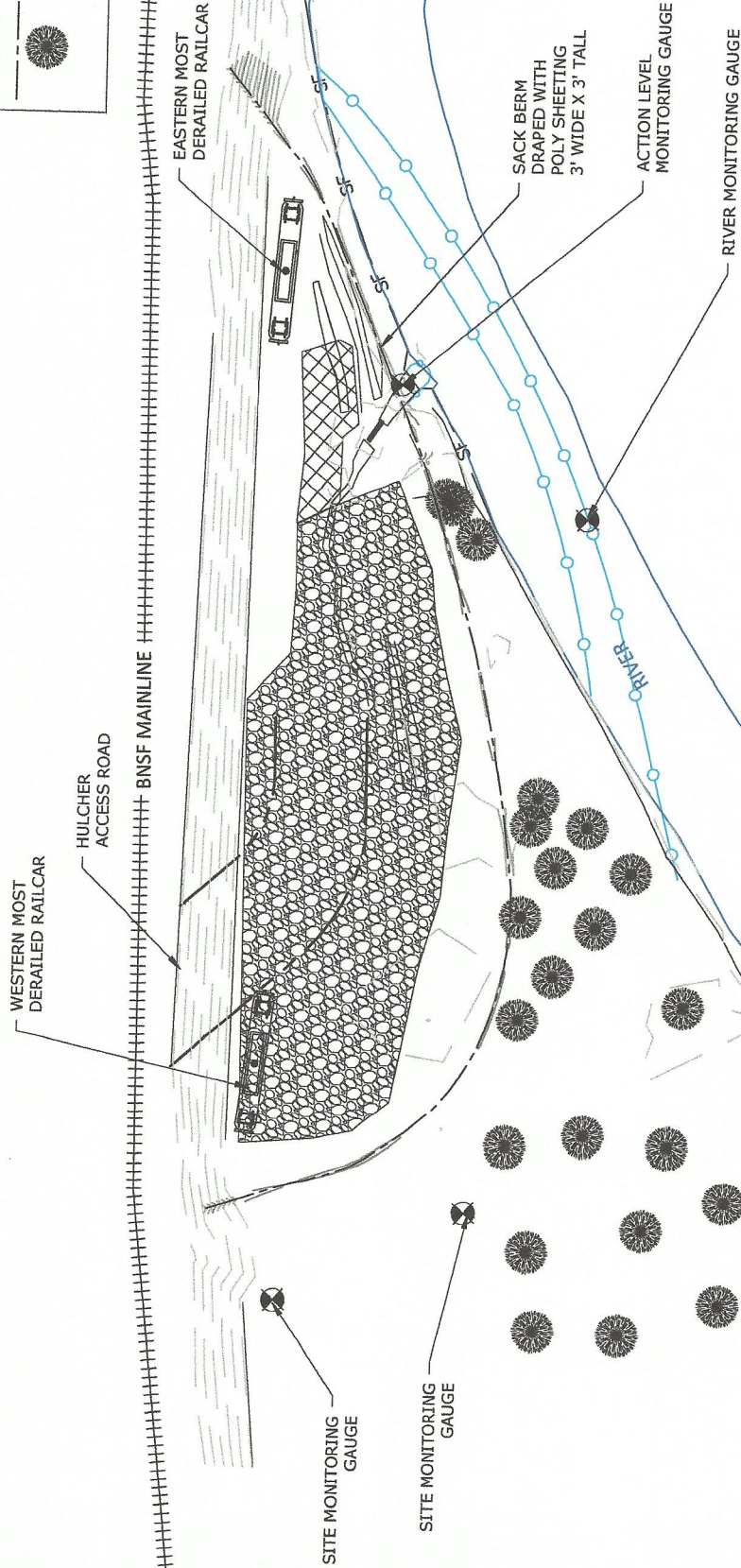
Recovery of oil and oily water from the site will be accomplished using one or two liquid vacuum trucks currently in operation at the site. Oil and oily water will be staged in on-site frac tanks consistent with current operations.

NOTE:
 • SACK BERM LENGTH = 600'



KEY

- SF — SILT FENCE
- BOOM
- ++++ RAIL
- SACK BERM CENTERLINE
- TREE

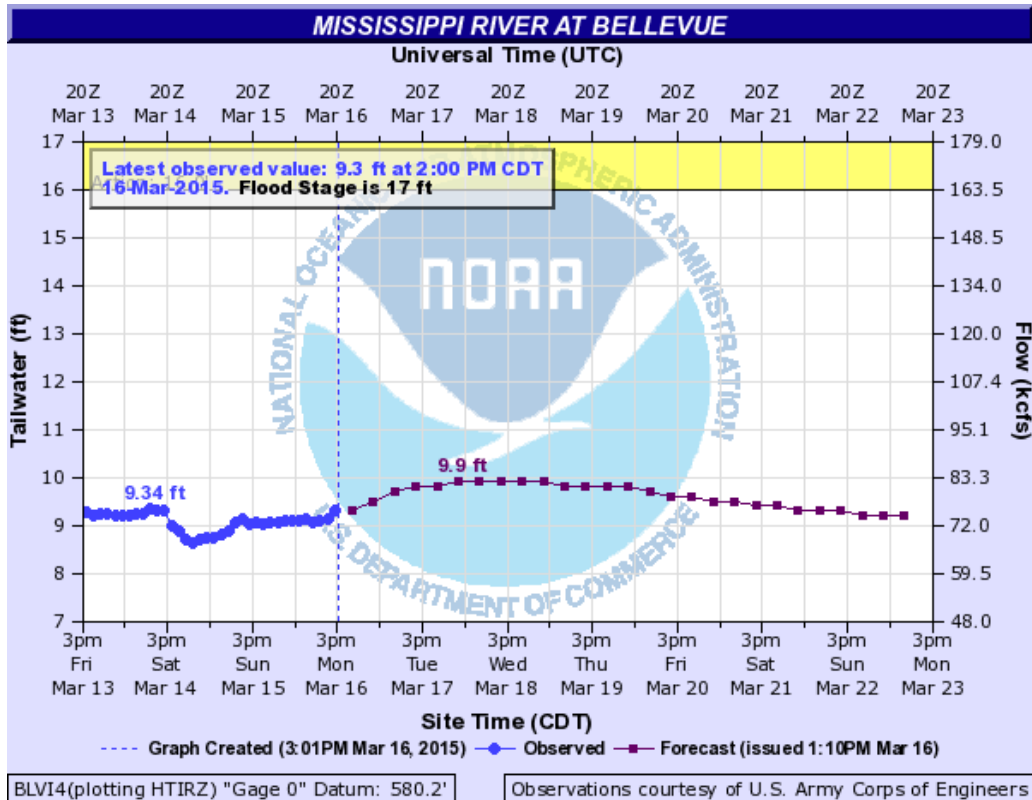
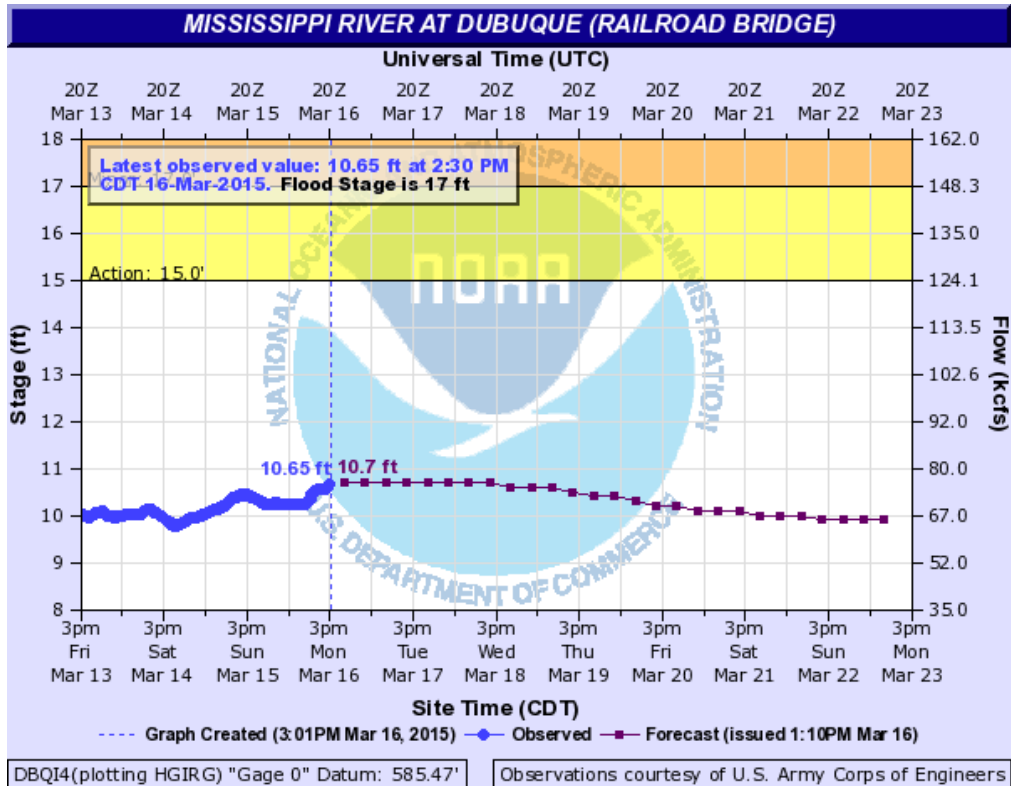


**CONTINGENCY PLAN EXHIBIT
 BNSF RAILROAD
 GALENA, IA**

Pinnacle Engineering
 11541 95th Ave N
 Minneapolis, MN 55369
 (763) 315-4501
 www.pineag.com

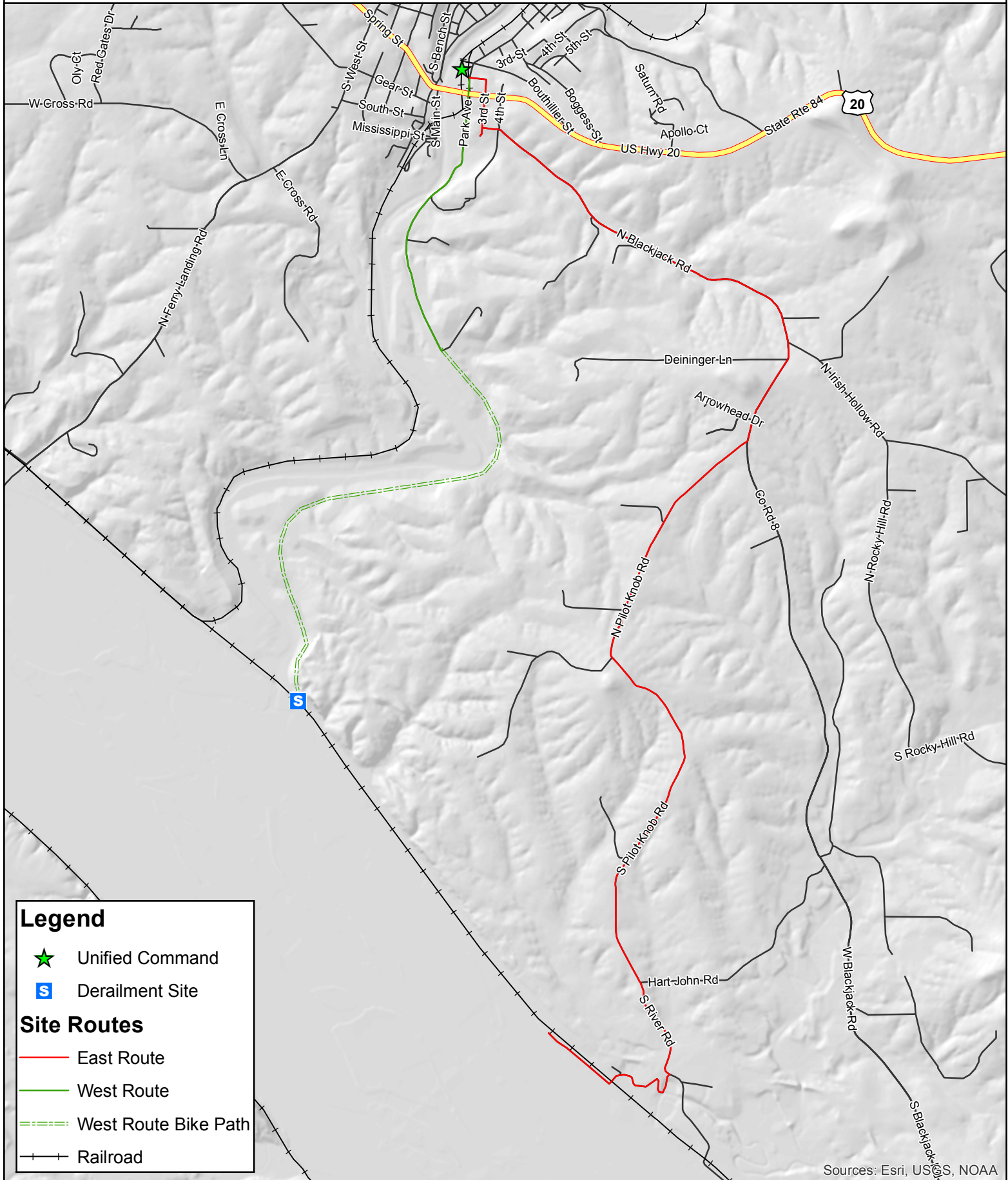
REVISIONS	Name	Date

PREPARED BY: BUL
 CHECKED BY: JH
 DESIGNED BY: BUL
 DATE: 3/15/2015
 SCALE: AS SHOWN



0 50 100 200 Feet





Sources: Esri, USGS, NOAA

BNSF Galena Derailment Plans Tracker

	Ops / Health&Safety /Environmental	Status	Plan Name	Version	Activities Covered	Company	Date Drafted	Version Draft Date	Submitted to Unified Command	Approved by Unified Command	IAP	Comments
1	Health & Safety	Active	Air Sampling and Analysis Plan	1.2	air sampling and analysis	CTEH	3/6/2015	3/11/2015	3/6/2015	3/6/2015		Updated to remove community monitoring and combustion gas monitoring
2	Health & Safety	Active	BNSF Health Site Safety Plan	3	BNSF overall HASP for all operations	Safety Officer	3/6/2015		3/6/2015	3/6/2015	3/9 - 3/10/15	
3	Ops	In Review	Demobilization Plan		demob of contractors and personnel	Planning	3/11/2015		3/11/2015	3/11/2015	3/12-3/14/15	
4	Health & Safety	Active	Emergency Evacuation and Personnel Injury Plan		emergency evacuation and personnel injury plan	SOFR	3/13/2015		3/13/2015	3/13/2015	3/15 - 3/17/15	
5	Health & Safety	In Review	HASP - Health and Safety Plans		Brennan Marines HASP submitted	VARIOUS	3/15/2015					Added Brennan/Under UC review
6	Environmental	Active	Oil Spill Contingency plan		oil spill contingency plan	ARCADIS	3/15/2015		3/15/2015	3/16/2015		
7	Environmental	On Hold	Phase Laser Induced Fluorescence Work Plan	2	LIF activities	ARCADIS	3/6/2015		3/9/2015	3/9/2015		UC had edits to v1 and returned to AUS for update
8	Environmental	Active	Post Excavation Soil Sampling Plan	2	soil sampling plan for conf. samples	ARCADIS	3/9/2015	3/9/2015	3/9/2015	3/9/2015	3/9 - 3/10/15	
9	Environmental	Active	Sheet Wall and Drainage Trench Plan	1	sheet pile wall and drainage trench install	ARCADIS	3/9/2015		3/9/2015	3/9/2015	3/10 - 3/11/15	
10	Environmental	Active	Site Decon Plan		equipment decon	BNSF	3/12/2015		3/12/2015	3/14/2015		
11	Ops	Active	Site Security Plan	1	security operations for site and ICP	BNSF	3/8/2015		3/8/2015	3/8/2015	3/9 - 3/10/15	
12	Environmental	Active	Site Transfer Plan		product transfer	Sunpro	3/7/2015		3/10/2015	3/10/2015		
13	Environmental	Active	Surface Water Sampling and Monitoring Amendment		frequency amendment	Pinnacle Eng.	3/10/2015		3/11/2015	3/11/2015		
14	Environmental	Active	Surface Water Sampling and Monitoring Plan		surface water monitoring	Pinnacle Eng.	3/10/2015		3/10/2015	3/10/2015		
15	Environmental	COMPLETE	Tank Car Cleaning and Purging Plan	1	cleaning and purging Tanks	BNSF	3/10/2015		3/10/2015	3/11/2015	3/12-3/14/15	
16	Environmental	COMPLETE	Tank Car Salvage Plan	1	car salvage	BNSF	3/11/2015		3/11/2015	3/11/2015	3/12-3/14/15	
17	Ops	In Draft	Traffic Control and Maintenance Plan		trailer movement for IC site jump	Pinnacle Eng.						
18	Ops	Active	Traffic Control Plan	1	Map of traffic plan	BNSF	3/6/2015	3/8/2015	3/8/2015	3/8/2015	3/9 - 3/10/15	
19	Environmental	Active	Waste Management and Handling Plan		waste management	ARCADIS	3/10/2015		3/10/2015	3/12/2015		
20	Environmental	In Draft	Waste Management and Handling Plan Amendment		updated disposal & Disposal site information	ARCADIS					2/18/2015	UC had edits to v1, updated and returned to UC
21	Environmental	Active	Water Influx contingency plan		flood contingency plan	ARCADIS	3/15/2015		3/15/2015			
22	Environmental	Active	Water Treatment Plan	1	water treatment	ARCADIS	3/12/2015		3/12/2015	3/16/2015	3/12-3/14/15	
23	Health & Safety	Active	Worker Exposure Monitoring Plan	1	work monitoring	CTEH	3/7/2015		3/7/2015	3/7/2015	3/9 - 3/10/15	
24												
25												
26												
27												
		16	in Active Status - Ongoing Operation									
		5	in Review, Drafted, on Hold Status									
		2	in COMPLETE Status - Operation Complete									