

Incident Name:

Response - GC2 Oil Transit Line Release

Operational Period to be covered by IAP:

Period 13 IAP (3/17/2006 19:00 to 3/20/2006 19:00)

Approved by:

FOSC: Len Marcus (for EPA FOSC Matt Carr)

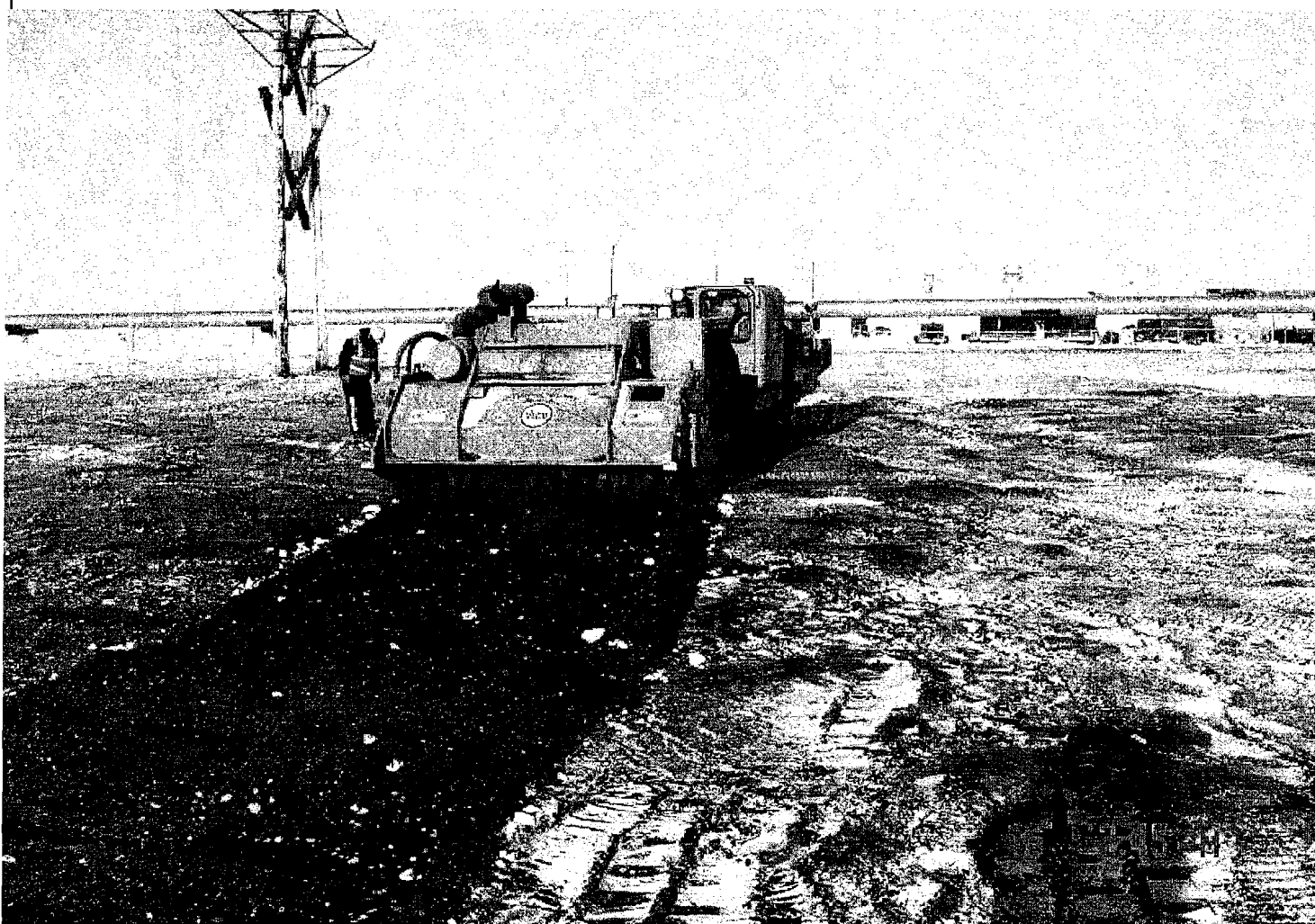
SOSC: Approved verbally during 3-18-06 0700 Assessment Mtg

LOSC / NSB: Approved verbally during 3-18-06 0700 Assessment Mtg

RPIC: J. Z. Spittle 3/17/06

Incident Action Plan

ORIGINAL



Prepared By: Planning

Prepared Date/Time: 3/17/2006 13:00

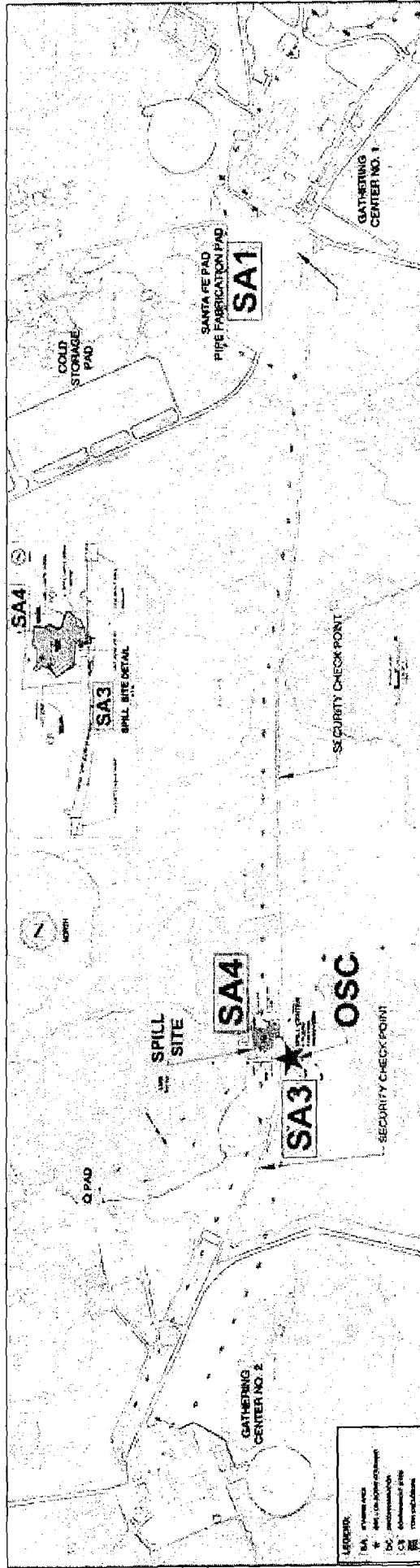
Incident: Response - GC2 Oil Transit Line Release

Prepared By: Section, Planning at 3/14/2006 19:39

Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00)

Version Name: GC2 Overview Map 3-11-06

GC2 Overview Map 3-11-06



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ICS 202 - General Response Objectives

Incident: Response - GC2 Oil Transit Line Release **Prepared By:** Section, Planning at 3/17/2006 08:00

Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00) **Version Name:** Approved Period 13 - 03/17/06 0800

Overall and Tactical Objectives

Assigned To

Status

No Injuries to Responders

Maintain containment of Affected Areas

Continue cleanup and recovery operations

- | | | |
|---|----------------------|-------------|
| • Conduct appropriate Tundra trimming efforts | Operations Deputy Se | In Progress |
| • Conduct appropriate snow melting efforts | Operations Deputy Se | In Progress |
| • Conduct gravel removal at caribou crossing | Operations Deputy Se | In Progress |

Identify Wildlife Concerns (Continue to Evaluate Potential Wildlife Concerns)

Control of Information - Document all activities - Release to appropriate agencies & organizations only

Continue to manage waste appropriately

Conduct Decon and Demobilization Operations of equipment no longer needed in accordance to the respective plans

Prepare and handover transition plan from IMT to Project Team

Approved By

: _____

ICS 204 - Assignment List

Incident: Response - GC2 Oil Transit Line Release	Branch: On-Scene Command
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00)	Division/Group: Safety Group
Prepared By Signature:	Task Force:
Approved By Signature:	

Operations Personnel

Title	Person	Radio	Phone	Pager
Day Safety Officer (on Call)	Schwemley, Mike		659-4459	659-4236#191
Day Site Safety Officer	McWilliams, Eben	37	659-0815	
Day Site Safety Officer	Wade, Cle	37	659-4792	659-4236#850
Night Safety Officer (on Call)	Pokryfki, Vince		659-8129	659-5100#1441
Night Site Safety Officer	Peirson, Jim	37	659-4792	659-4236#850

Assignments

Monitor site and personnel safety.

Special Instructions for Division / Group

Pay particular attention to personnel not familiar with North Slope safety requirements and cold weather conditions.
 Perform continuous monitoring for potential health hazards.
 SIMs training tips conducted for both day and night field personnel as required.
 Ensure prompt reporting of incidents (near misses, injuries, etc) and early treatment.

Tactical Objective

NO INJURIES TO RESPONDERS

Alaska Clean Seas Technical Manual Tactics: S-1 (Site Entry Procedures)
 S-2 (Site Safety Plan Form)
 S-3 (Identifying Required Personal Protection)
 S-4 (Site Layout)
 S-5 (Air Monitoring for Personal Protection)

Description of Work

1. Continue air monitoring for hazardous atmosphere (health & safety). Monitoring for VOC's, benzene, oxygen, LEL, CO & H2S.
2. Ensure appropriate level of PPE for the environmental conditions (protection from weather, product exposure - respiratory & contact).
3. Watch for slip, trips and falls on uneven work surfaces.
4. Maintain compliance with Safety and Health Plan.
5. Conduct daily THA's, toolbox meetings.

Location of Work

At all incident areas.

Special Site-Specific Safety Considerations

PPE appropriate with associated level of risk & exposure.
 Monitor gravel embankment and excavation area site after tent is erected and heat introduced. (Sluffing/Engulfment concern)

ICS 204 - Assignment List

Incident: Response - GC2 Oil Transit Line Release	Branch: On-Scene Command
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00)	Division/Group: Staging
Prepared By Signature:	Task Force:
Approved By Signature:	

Operations Personnel

Title	Person	Radio	Phone	Pager
Day Staging Area Manager-SA4	Hobbs, Garland	37	659-4279	
Day Staging Area Assistant-SA4	Mulligan, Karen	37	659-4251	
Day Staging Area Checkin-SA3	Anderson, Nancy	37	659-4379	
Night Staging Area Manager-SA4	Salazar, Clif	37	659-4279	
Night Staging Area Assistant-SA4	Stoval, Chris	37	659-4251	
Night Staging Area Checkin-SA3	McSorley, George	37	659-4379	
Day Mechanic Lead	Simon, Cory	29		
Night Mechanic Lead	Hartsock, Jay	29		

Incident Resources - Equipment

Supplier	Resource Type	Description	Quantity	Size	Status
Staging Area 2- Q-Pad					
Conam	Equipment: Heavy	52240 snow blower	1 each		Assigned
Alaska Clean Seas	Generator	GNED-1702-10	1 each		Assigned
VECO Alaska, Inc.	Lighting	82-162 Light Plant	1 each		Assigned
SRT-WOA	Trailer	TRLU-2001-30 Fltbd	1 each	20 feet	At Staging

Staging Area 3-Ice Pad South of Caribou Crossing 1

BPX/SRT	Air Compressor	86-228 Air Co.	1 each		At Staging
Heavy Equipment	Air Compressor	86-233 AIR COMPRI	1 each		At Staging
H & H Equipment Sales	Equipment: Heavy	19690 walk behind	1 feet		Assigned
Conam	Equipment: Heavy	38-003 dump truck	1 each		Assigned
Conam	Equipment: Heavy	82185 Maxi Haul	1 each		Assigned
VECO Alaska, Inc.	Equipment: Small	18-059 Heater	1 each	each	Assigned
Stores tool room	Equipment: Small	20FT LADDER	1 each		At Staging
Alaska Clean Seas	Equipment: Small	42-037 Hooch Tent	1 each		Assigned
BP Alaska	Equipment: Small	88-635 Heater	1 each		Assigned
VECO Alaska, Inc.	Equipment: Small	88-673 Heater	1 each	each	Assigned
Conam	Equipment: Small	88-728 Heater	1 each	each	At Staging
BP Alaska	Equipment: Small	88-786 Tioga Heater	1 each		Assigned
BP Alaska	Generator	GNED-80-305 Gen.	1 each		Assigned
VECO Alaska, Inc.	Lighting	42-071 Light Plant	1 each		Assigned
VECO Alaska, Inc.	Lighting	42101 Light Plant	1 each		Assigned
Peak Oilfield Services	Lighting	R-866 Light plant	1 each		Assigned
BP Alaska	Portable Toilets	PB-6135 Envirovac	1 each		Assigned
SRT	Trailer	CommandSRT97228	1 each		Assigned
BP Alaska	Trailer	Staging 68-747	1 each		Assigned
Alaska Clean Seas	Trailer	Warmup WARM-200	1 each		Assigned
VECO Alaska, Inc.	Vacuum Truck	Sup. Sucker 36021	1 each		Released
Peak / Veco	Vacuum Truck	Vac Truck K298	1 each		At Staging
Central dispatch	Vehicle	15-100 crew cab tru	1 each		Assigned

ICS 204 - Assignment List

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Prepared By Signature:	Task Force:
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Incident Resources - Equipment

Supplier	Resource Type	Description	Quantity	Size	Status
Staging Area 4- Q-Lake Staging					
BP Alaska	Equipment: Heavy	IT 62 loader	1 each		Assigned
Craig Taylor	Equipment: Heavy	19715 Bobcat MT52	1 each		Assigned
Craig Taylor	Equipment: Heavy	19716 Bobcat MT55	1 each		Assigned
VECO Alaska, Inc.	Equipment: Heavy	287-B skid steer bot	1 each		Assigned
Central dispatch	Equipment: Heavy	40-130 Loader, case	1 each		Assigned
Conam	Equipment: Heavy	4149 low-pro trimme	1 each		Assigned
Alaska Clean Seas	Equipment: Heavy	4yd bucket for FKL-0	1 each		At Staging
BP Heavy Equip	Equipment: Heavy	52-032 Loader CAT	1 each		Assigned
Air port rentals	Equipment: Heavy	7-44 dump trucks	1 each		Assigned
Air port rentals	Equipment: Heavy	7-83 dump trucks	1 each		Assigned
BPX/SRT	Equipment: Heavy	Bcat D003 Bob Cat T	1 each		At Staging
Alaska Clean Seas	Equipment: Heavy	BCAT-0003 T190 Bo	1 each		Assigned
BP Alaska	Equipment: Heavy	D8 DOZER	1 each		Assigned
Alaska Clean Seas	Equipment: Heavy	FKL0004 loader	1 each		Assigned
Alaska Clean Seas	Equipment: Heavy	forks for FKL-0004	1 each		At Staging
Peak	Equipment: Heavy	K155 dump truck	1 each		Assigned
Conam Construction Compai	Equipment: Heavy	loader w/scratcher	1 each		Assigned
NC Machinery Co	Equipment: Heavy	NC-1 Bobcat - Skid S	1 each		Assigned
NC Machinery Co	Equipment: Heavy	NC-2 Bobcat - Skid S	1 each		Assigned
NC Machinery Co	Equipment: Heavy	NC-3 Bobcat - Skid S	1 each		Assigned
Alaska Clean Seas	Equipment: Heavy	pintle hitch recv for F	1 each		At Staging
Alaska Clean Seas	Equipment: Heavy	Scratcher for FKL-00	1 each		At Staging
Alaska Clean Seas	Equipment: Heavy	snowplow for FKL-00	1 each		At Staging
Tool Room - woa	Equipment: Small	8004 - 20' Ladder, E	1 each		At Staging
BP Alaska	Equipment: Small	88-671 Tioga Heater	1 each		At Staging
BP Alaska	Equipment: Small	88-675 Tioga Heater	1 each		Assigned
BP Alaska	Equipment: Small	88-729 Tioga Heater	1 each		Out-of-Service
Conam	Equipment: Small	88-767 Tioga Heater	1 each		Assigned
Alaska Clean Seas	Equipment: Small	AUGP-0014 power h	1 each		Assigned
Alaska Clean Seas	Equipment: Small	DHRL0609 Hose Re	2 each		At Staging
McMASTER CARR	Equipment: Small	HAND TRUCKS	2 each		Enroute/Sourced
Alaska Clean Seas	Equipment: Small	HTR-0013 Heater	1 each	each	Assigned
Grainger Inc.	Equipment: Small	LIGHT STRINGS	6 each		Enroute/Sourced
Alaska Clean Seas	Equipment: Small	WPT-0017 & 0019 Ti	2 each		Assigned
BP Alaska	Fire Fighting Equipmen	mobile fire extinguish	1 each		Assigned
BP Alaska	Generator	80-301 Generator, 3	1 each		Assigned
BP Alaska	Generator	80-607&Pwr Pck Gei	1 each	100 kw	Assigned
BP Alaska	Generator	97-227 Generator on	1 each		Assigned

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Incident Resources - Equipment

Supplier	Resource Type	Description	Quantity	Size	Status
Staging Area 4- Q-Lake Staging					
BP Alaska	Generator	GNED-0402 General	1 each		Assigned
Alaska Clean Seas	Generator	GNED-0402-30	1 each		Assigned
Alaska Clean Seas	Generator	GNED-0405 General	1 each		Assigned
Alaska Clean Seas	Generator	GNED-0602 General	1 each		At Staging
Alaska Clean Seas	Generator	GNED-6001 General	1 each		Assigned
Peak Oilfield Services	Generator	GNED-R833 Genera	1 each	15 kw	Assigned
AirPORT RENTAL	Lighting	12-329 Light Plant G	1 each		Assigned
AirPORT RENTAL	Lighting	12-375 Light plant pc	1 each		Assigned
VECO Alaska, Inc.	Lighting	12-412 Light plant	1 each		Assigned
AirPORT RENTAL	Lighting	12-422 Light Plant S	1 each		Assigned
AirPORT RENTAL	Lighting	12-471 Lght Plant G	1 each		Assigned
AirPORT RENTAL	Lighting	42071 Light plant	1 each		Assigned
VECO Alaska, Inc.	Lighting	82-157 Light Plant	1 each		Assigned
VECO Alaska, Inc.	Lighting	82-167 Light Plant	1 each		Assigned
Alaska Clean Seas	Lighting	FLQ-0001-30 Flood l	1 each		At Staging
Alaska Clean Seas	Lighting	FLQ-0002-30 Flood l	1 each		At Staging
Alaska Clean Seas	Portable Toilets	POTY-2401 Env.vac	1 each		Assigned
Peak / Veco	Portable Toilets	R915 ENVIROVAC	1 each		Assigned
GCI	Pressure Washers / Wa	HYPYU-0045-25 Yanr	1 each		At Staging
Alaska Clean Seas	Pumps	HYPYU-0015-25 3' La	1 each	each	At Staging
Alaska Clean Seas	Pumps	HYPYU-0611 DESMI2	1 each	each	At Staging
CPAD WHSE	Sorbent: Pads	ABSORBENT, ANTI-	64 each		At Staging
VMS	Storage: Liquid	fuel tank (200-250g)	1 each		Assigned
Alaska Clean Seas	Storage: Liquid	TFKA-0503 fuel tank	1 each	500 gallon	Assigned
North Slope Borough	Storage: Solid	11& 81 dumpster be	2 each	6 cubic yar	Assigned
Alaska Clean Seas	Storage: Solid	CONX-2009 snw fnc	1 each		At Staging
Alaska Clean Seas	Storage: Solid	CONX-2843 Hoses	1 each		At Staging
BPVMS	Storage: Solid	OW02 Oily Waste	1 each		Assigned
Alaska Clean Seas	Storage: Solid	TOTE-0367	1 each		At Staging
Alaska Clean Seas	Trailer	Fitbd Utility-1806	1 each		At Staging
Fairweather, Inc.	Trailer	Smoke Shack - 6	1 each		Assigned
Alaska Clean Seas	Trailer	SNOS-0001 Snwmch	1 each		At Staging
Alaska Clean Seas	Trailer	TRLA-0008 Snwmch	1 each		At Staging
Alaska Clean Seas	Trailer	TRLA-0010 Snwmch	1 each		At Staging
Alaska Clean Seas	Trailer	TRLA-0014 Snwmch	1 each		At Staging
Alaska Clean Seas	Trailer	TRLA-0016 Snwmch	1 each		At Staging
Alaska Clean Seas	Trailer	TRLA-1804 Trailer	1 each		At Staging
BPKRU	Trailer	TRLO 2402-10 SRT	1 each		Assigned

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Incident Resources - Equipment

Supplier	Resource Type	Description	Quantity	Size	Status
Staging Area 4- Q-Lake Staging					
BPX/SRT	Trailer	TRLU-1601 for Bobc	1 each		At Staging
BP Alaska	Trailer	TRLV-2002-30 Mech	1 each		Assigned
Alaska Clean Seas	Trailer	TRLV-2004	1 each		Assigned
SRT EOA	Trailer	VAND-2207-40 Stagi	1 each		Assigned
Alaska Clean Seas	Trailer	WARM-3201 Warmu	1 each		Assigned
BP Alaska	Trailer	WARM-3201-30 War	1 each		Assigned
Central dispatch	Vacuum Truck	250 BBL VAC TRUC	1 each		Released
Central dispatch	Vacuum Truck	82-199 300 bbl vac t	1 each		Assigned
Central dispatch	Vacuum Truck	82-199 300 bbl vac t	1 each		Assigned
Heavy Equipment	Vacuum Truck	90023 90 BBL VAC T	1 each		Assigned
Central dispatch	Vehicle	15-049 crew cab tru	1 each		Assigned
Central dispatch	Vehicle	85053 100bbl water	1 each		Assigned
VECO Alaska, Inc.	Vehicle	auto car 30-205	1 each		Assigned

Incident Resources - Manpower

Supplier	Resource Type	Description	Quantity	Size	Status
Staging Area 2- Q-Pad					
Security	Manpower: Responder	Security Q Pad 14-8	1 each		Assigned
Staging Area 3-Ice Pad South of Caribou Crossing 1					
Heavy Equipment	Manpower: Operator	966 Loader	1 each		Assigned
Heavy Equipment	Manpower: Operator	Operator	1 each		Assigned
Heavy Equipment	Manpower: Operator	Operator	1 each		Assigned
Purcel Security	Manpower: Responder	Night Security Guard	1 each		Assigned
BP Alaska	Manpower: Supervisor	on site commander	1 each		Enroute/Sourced

Staging Area 4- Q-Lake Staging

Heavy Equipment	Manpower: Operator	Low Profile Loader C	1 each		Assigned
Materials Group C-Pad	Manpower: Responder	Night Expediter	1 each		Assigned
Alaska Clean Seas	Manpower: Responder	Staging Assist (1d/1r	2 each		Assigned
ASCI	Manpower: Responder	Staging Assit	1 each		Assigned

Assignments

Maintain existing staging areas for supporting field operations.

Special Instructions for Division / Group

Focus on proper checkout procedures for demobilization of equipment and personnel.

Tactical Objective

Alaska Clean Seas Technical Manual Tactic: L-2 (Staging Areas)

ICS 204 - Assignment List

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Prepared By Signature:	Task Force:
Approved By Signature:	

Description of Work

1. Receive and check-in/check-out equipment and personnel
2. Conduct Safety briefings for new personnel to site.
3. Ensure all personnel have proper PPE, safety equipment, etc prior to personnel entering hot zone.

Location of Work

SA1 - Santa Fe Pad
SA2- Q Pad
SA3 - GC2 Roadside (On-Scene Command location)
SA4 - Ice Pad off of Q-pad (Staging Area Manager location)

ICS 204 - Assignment List

Incident: Response - GC2 Oil Transit Line Release	Branch: Environmental Branch
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00)	Division/Group:
Prepared By Signature:	Task Force:
Approved By Signature:	

Operations Personnel

Title	Person	Radio	Phone	Pager
Day Environmental Branch Director	Dawley, Bill	37		659-5100 #2078
Day Environmental Branch Director	Short, James	37		659-4236 #966
Night Environmental Branch Director	Anderson, Brian	37		

Assignments

Monitoring activities for compliance with Waste Disposal Plan. Manifesting of recovered media (liquids, snow, and gravel). Provide assistance and advice on scene and reporting back to Env Unit Leader on any changes and activities requiring agency notifications and concurrence.

Agency Liasons during project phase

Environmental Group is solely responsible for the accounting of manifested recovered totals.

Special Instructions for Division / Group

Follow Waste Disposal Plan, Sampling Plan, and Daily Volume Estimate Reporting Protocol
Follow established Trimming Protocol Procedure.

Ensure compliance of the approved Tundra Treatment Plan.

Ensure compliance with the Wildlife Interaction Plan.

Tactical Objective

Oversight of onsite waste management.

Alaska Clean Seas Technical Manual Tactics :

- D-1 Processing Recovered Liquids
- D-2 Storage and Disposal of Non-Liquid Oily Wastes
- D-3 Disposal of Non-Oily Wastes
- D-4 Stockpiling Oiled Gravel
- D-5 Processing of Contaminated Snow/Ice

Location of Work

Spill Recovery Site, CC2A, Flow 2 area, Contaminated Snow/Ice Storage area, Staging Areas SA3 and SA4.

Special Environmental Considerations

Prevent wildlife interactions and impacts. Minimize impact to tundra and surface water.

ICS 204 - Assignment List

Incident: Response - GC2 Oil Transit Line Release	Branch: Response Branch
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00)	Division/Group: Hot Zone Division
Prepared By Signature:	Task Force:
Approved By Signature:	

Operations Personnel

Title	Person	Radio	Phone	Pager
Day Trimming Team Leader	Chace, Fred	37/29		
Day Snow Removal Team Leader	Simon, Cory	29		
Night Snow Removal Team Leader	Mills, Ted	29		

Incident Resources - Equipment

Supplier	Resource Type	Description	Quantity	Size	Status
Hot Zone Division					
AirPORT RENTAL	Equipment: Heavy	1-135 450 John Deere	1 each		Assigned
AirPORT RENTAL	Equipment: Heavy	11-1-115 Loader Skid	1 each		Out-of-Service
AirPORT RENTAL	Equipment: Heavy	11-1-118 Loader Skid	1 each		Out-of-Service
AirPORT RENTAL	Equipment: Heavy	11-1-133 Loader Skid	1 each		Assigned
Craig Taylor	Equipment: Heavy	19699 Bobcat Wlker	1 each		Assigned
Heavy Equipment	Equipment: Heavy	52-251 Loader - low pro	1 each		Assigned
AirPORT RENTAL	Equipment: Heavy	7-155 DTrck,400D	1 each		Assigned
AirPORT RENTAL	Equipment: Heavy	ASV #11-1-119	1 each		Out-of-Service
Enviromental - woa	Equipment: Heavy	Ice Auger	2 each		Assigned
Peak Construction	Equipment: Heavy	K345 Dump Truck D	1 each		Demobilized
SRT	Equipment: Heavy	Trencher for Bobcat	1 each		Assigned
Alaska Clean Seas	Equipment: Small	AUGP-0015 power h	1 each		At Staging
Alaska Clean Seas	Generator	GNEP-0401-30 Gen.	1 each		Assigned
BP Alaska	Generator	GNEP-0502 General	1 each		Assigned
Alaska Clean Seas	Generator	GNEP-0505 General	1 each		At Staging
Alaska Clean Seas	Generator	GNEP-0507 General	1 each	5 kw	Assigned
BP Alaska	Generator	GNEP-0508 General	1 each		At Staging
Alaska Clean Seas	Generator	GNEP-0603 General	1 each		Assigned
Alaska Clean Seas	Generator	GNEP-0605	1 each		Assigned
BP Alaska	Lighting	96753 Flood Light St	1 each		Assigned
Alaska Clean Seas	Lighting	FLQ-0003-30 Flood l	1 each		Assigned
Alaska Clean Seas	Lighting	FLQ-0004-30 Flood l	1 each		Assigned
Alaska Clean Seas	Lighting	FLQ-0016 Flood Lgh	1 each		Assigned
Alaska Clean Seas	Lighting	FLQ-0017 Flood Ligh	1 each		Assigned
Alaska Clean Seas	Lighting	FLQ-0020 Flod Light	1 each		Assigned
Alaska Clean Seas	Lighting	FLQ-0021 Flood Lgh	1 each		Assigned
Alaska Clean Seas	Pumps	DOP 160 Pump	1 each	each	Assigned
Stores Stock	Storage: Liquid	300 Gal tote	1 each		Enroute/Sourced
BP EOA Fire Dept	Storage: Liquid	300 Gal totes	2 each		Enroute/Sourced
Alaska Clean Seas	Storage: Liquid	TK-0102 100g Tnk or	1 each	100 gallon	Assigned
Alaska Clean Seas	Storage: Liquid	TKFT-0501-10 Port.1	1 each		Assigned
Alaska Clean Seas	Storage: Liquid	TKFT-0502-10 Port.1	1 each		Assigned
Alaska Clean Seas	Storage: Liquid	TKFT-0505 Port.Tan	1 each		Assigned

ICS 204 - Assignment List

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Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00)	Division/Group: Hot Zone Division
Prepared By Signature:	Task Force:
Approved By Signature:	

Incident Resources - Equipment

Supplier	Resource Type	Description	Quantity	Size	Status
<i>Hot Zone Division</i>					
Alaska Clean Seas	Storage: Liquid	TKFT-0505 Port.Tan	1 each		Assigned
Alaska Clean Seas	Storage: Liquid	TKFT-0506 Port.Tan	1 each		Assigned
Enviromental - woa	Storage: Solid	Plastic tubs-	4 each		Assigned
Alaska Clean Seas	Trailer	SNOS-0002 Snwmct	1 each		At Staging
Lynden Logistics Inc.	Trailer	Tractor Trailer	3 each		Assigned
Sourdough Express, Inc.	Trailer	Tractor Trailer	8 each		Assigned
Alaska Clean Seas	Vehicle	Kubota ATV-4001	1 each		Assigned

Incident Resources - Manpower

Supplier	Resource Type	Description	Quantity	Size	Status
<i>Hot Zone Division</i>					
Penco	Manpower: Operator	Equip Operator-Day	2 each	each	Assigned
LCMF, Inc.	Manpower: Responder	Berm Crew - Day	1 each		Assigned
Conam	Manpower: Responder	Bobcat Op. Night	4 each	each	Assigned
LCMF, Inc.	Manpower: Responder	Drill Crew - Day	1 each		Assigned
Penco	Manpower: Responder	Drill Crew - Day	2 each	each	Assigned
Penco	Manpower: Responder	Hooch Crew - Day	4 each	each	Assigned
Penco	Manpower: Responder	Lead Drill Crew-Day	1 each	each	Assigned
Alaska Clean Seas	Manpower: Responder	Responder (3d/2n)	5 each		Assigned
LCMF, Inc.	Manpower: Responder	Responder - Day	2 each		Assigned
Acuren	Manpower: Responder	Responder - night	1 each	each	Assigned
Penco	Manpower: Responder	Responders - Day	5 each	each	Assigned
Penco	Manpower: Responder	Responders - Night	2 each	each	Assigned
Penco	Manpower: Responder	Responders - Night	4 each	each	Assigned
Alaska Clean Seas	Manpower: Responder	Supervisor (1d/1n)	2 each		Assigned
Penco	Manpower: Responder	Supervisor - Day	1 each	each	Assigned
BPX/VMS	Vacuum Transfer Unit	VPU-0001-30	1 each		Assigned
BPX/VMS	Vacuum Transfer Unit	VPU-0002-30	1 each		Assigned

Assignments

Tundra Timming operations

1. Ensure to maintain a depth of 3 inches or less where possilbe during trimming operations.
2. Ensure the trimming materials are kept seperately from all other waste inside trimmed area to be hauled to G&I area for disposal. (keep trimmings separated at G&I from other materials also)

Gravel Removal operations

1. Identify the extent of the oil migration in the gravel area and remove the impacted gravel with SuperSucker and transport to G&I for disposal
2. Ensure the gravel is kept separately from all other waste at G&I area.

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Special Instructions for Division / Group

****All work activity in the hot zone requires a procedure or plan approved by On Scene Command****

All volumes are reported through Environmental Unit only.

No night operations for trimming operations only day light hours for trimming.

Tactical Objective

Conduct appropriate Tundra trimming efforts
 Conduct gravel removal at caribou crossing
 Identify resources/equipment no longer needed to support operations and recommend to OnScene Command

Description of Work

Tundra Trimming:

1. See Tundra Trimming Operations Protocol document.

Gravel Removal:

1. Identify the extent of the oil migration in the gravel area and remove the impacted gravel with SuperSucker and transport to G&I for disposal

Location of Work

Tundra Trimming in Impacted area

Gravel Removal at caribou crossing

Special Equipment / Supplies Needed for Assignment

Ensure bobcats and other equipment are outfitted with arctic grade fluids.

Special Environmental Considerations

Follow the established protocols with Trimming Operations.

Verify the pit liners is in place at G&I before transporting of trimming materials to G&I.

Monitor winds during trimming operations to prevent contamination outside hotzone.

Special Site-Specific Safety Considerations

Personnel must be briefed on the associated potential hazards and/or trained on the use of the equipment if necessary. Close supervision will be required to ensure that this operation is conducted safely. Safety will monitor this activity closely as the addition of heat in the tented area may result in the breakout of benzene and flammable vapors. If this occurs, control methods will be implemented. Site weather conditions will dictate operations.

Ensure gravel samples are taken to lab to analyze flash point levels, prior to use of Guzzler or Super Sucker

If conditions of the gravel being removed changes to more oily conditions or free liquids, obtain new flashpoint sample.

Ensure proper clearance under gas pipeline.

Cleanup operations personnel will remain clear around adjacent lines during warmup period.

Ensure fiber optic cable is out of harms way.

Utilize qualified operators for associated equipment.

ICS 204 - Assignment List

Incident: Response - GC2 Oil Transit Line Release	Branch: Response Branch
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00)	Division/Group: Site Support Group
Prepared By Signature:	Task Force:
Approved By Signature:	

Operations Personnel

Title	Person	Radio	Phone	Pager
Day Site Support Group Supervisor	Aveoganna, Reynold	29		
Night Site Support Group Supervisor	Ruiz, Dave	29		

Assignments

Conduct site maintenance activities.

Description of Work

CHECK VEHICLE PARKING AREAS FOR INDICATIONS OF SPILLS OR LEAKS.
 Check parking areas for drip pan usage.
 Monitor equipment status, servicing and fueling.
 Clean up grounds of work areas and Staging Areas.
 Empty trash in Envirovacs and personnel break areas.

Location of Work

Field response areas, Staging Areas, vehicle parking areas.
 SA2- Q Pad
 SA3 - GC2 Roadside (On-Scene Command location)
 SA4 - Ice Pad off of Q-pad (Staging Area Manager location)

ICS 204 - Assignment List

Incident: Response - GC2 Oil Transit Line Release	Branch: Response Branch
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00)	Division/Group: Decontamination Group
Prepared By Signature:	Task Force:
Approved By Signature:	

Operations Personnel

Title	Person	Radio	Phone	Pager
Day Decon Group Leader	Schultz, Dana	Ch - 37		

Incident Resources - Equipment

Supplier	Resource Type	Description	Quantity	Size	Status
Decontamination Group					
BP Alaska	Generator	80-104 Gen.	1 each		Assigned
Alaska Clean Seas	Generator	GNED-0822	1 each		Assigned
AirPORT RENTAL	Lighting	12-414 Lght plnt	1 each		Assigned
VECO Alaska, Inc.	Lighting	82-172 Light Plant	1 each		Assigned
Alaska Clean Seas	Lighting	FLQ-0001-85 Flood I	1 each		At Staging
Peak Oilfield Services	Lighting	R701 Light plant	1 each		Assigned
Alaska Clean Seas	Storage: Solid	Connex 2868 Decon	1 each		Assigned
BP EOA SRT	Storage: Solid	tote for saranex	3 each		Assigned
BP Alaska	Trailer	TRLV-2001-30 Decn	1 each		Assigned
BP Alaska	Trailer	TRLV-2004-30 Decn	1 each		Assigned
VECO Alaska, Inc.	Vehicle	85052 Hot Water Tru	1 each		Released

Incident Resources - Manpower

Supplier	Resource Type	Description	Quantity	Size	Status
Decontamination Group					
Penco	Manpower: Responder	Decon Crew - Day	4 each	each	Assigned
Penco	Manpower: Responder	Decon Lead - Day	1 each	each	Assigned
Penco	Manpower: Responder	Responders - Night	1 each	each	Assigned

Assignments

Equipment and Personnel Decontamination

Special Instructions for Division / Group

Ensure all personnel enter and exit through a decon station at each site.
Ensure proper tracking of personnel through decon area.

Tactical Objective

MAINTAIN CONTAINMENT OF AFFECTED AREA

Alaska Clean Seas Technical Manual Tactics: S-6 (Decontamination)

Description of Work

Decontaminate personnel and equipment as necessary.

Location of Work

SA-4, Q Pad Lake Ice Pad. ?

Special Site-Specific Safety Considerations

Ensure compliance with 29CFR1910.120 (HAZWOPER regulations)

ICS 204 - Assignment List

Incident: Response - GC2 Oil Transit Line Release	Branch: Facilities
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00)	Division/Group: CC-2A
Prepared By Signature:	Task Force:
Approved By Signature:	

Operations Personnel

Title	Person	Radio	Phone	Pager
Day Snow Melt Team	Blake, Jim	Ch - 37		
Day Snow Melt Team	Mason, Jesse	Ch - 37		
Night Snow Melt Team	Crogan, Scott	Ch - 37		
Night Snow Melt Team	Horton, Rick	Ch - 37		

Incident Resources - Equipment

Supplier	Resource Type	Description	Quantity	Size	Status
CC-2A					
AES	Equipment: Heavy	Snow Melter 300BBL	1 each		Assigned
BP Alaska	Equipment: Heavy	Snow Melter 300BBL	1 each		Assigned
Peak	Equipment: Heavy	Snow Melter 300BBL	1 each		Assigned
Central dispatch	Vehicle	hot water truck	1 each		Enroute/Sourced

Assignments

Ensure snow melting operations are carried out in accordance with the plan.
If wind increases, may dictate utilizing water misting for containment stability.

Special Instructions for Division / Group

Snow Melting: If wind increases, may dictate utilizing water misting for containment purposes.
All volumes are reported through Environmental Unit only.
If additional snow is to be hauled to CC2A then the access areas have to be cleaned before the haul-in of material.

Tactical Objective

Conduct appropriate snow melting efforts

Location of Work

CC2A

Special Environmental Considerations

Ensure an accurate count of material is kept. (The number of trucks and volume of each) and reported to the Environment Branch Director.

Special Site-Specific Safety Considerations

See THA
Use ongoing daily permitting process to capture any new concerns.

ICS 204 - Assignment List

Incident: Response - GC2 Oil Transit Line Release	Branch: Facilities
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00)	Division/Group: Flow 2 Facility
Prepared By Signature:	Task Force:
Approved By Signature:	

Assignments

Document all loads received.
Before the tank levels are lowered you have to receive approval from ADEC, contact Env Unit Leader at 5196. (ADEC may request to be present during lowering)
Maintain a copy of the manifest received

Special Instructions for Division / Group

All spill fluids to be delivered to tank# 1934, no other fluids will be accepted in tank#1934.
Follow approved Waste Disposal Plan.

All volumes are reported through Environmental Unit only.

Tactical Objective

Get accurate volume calculation of recovered oil.

Special Site-Specific Safety Considerations

Follow normal site off-loading safety procedures.
Follow Volume Estimation Protocol document ; "Method 2: Volume Accounting of Recovered Material"
Follow the flammable and combustable fluid transfer standard located in the ASH Book.

Any Personnel assigned?

ICS 205 - Communications Plan

Incident: Response - GC2 Oil Transit Line Release	Prepared By: Section, Planning at 3/14/2006 19:39
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00)	Version Name: Revised 3/11/06 1100

Phone Listing

Name	Main Phone	Fax	Other Number - Desc.	Other Number - Desc.	Radio?
EmOC	659-8608	659-5024	659-8615 - Alternate	-	<input type="radio"/> Yes <input checked="" type="radio"/> No
On-Scene Command	659-4808	659-4804	659-4807 - Deputy	659-4812 - Admin	<input checked="" type="radio"/> Yes <input type="radio"/> No
Site Safety Officer	659-4792	659-4804	-	-	<input checked="" type="radio"/> Yes <input type="radio"/> No
Staging Area Manager	659-4502	659-4325	659-4251 - Resource	659-4279 - MGR	<input checked="" type="radio"/> Yes <input type="radio"/> No
ANC Crisis Center	564-5108	564-4899	564-5180 - Alt Fax	-	<input type="radio"/> Yes <input checked="" type="radio"/> No

Radio Utilization

System	Channel	Function	Frequency	Assignment	Notes
NS VHF Oilspill	37	Operations/Safety	Tx- 158.445 Rx- 159.480	On-Scene Command Site Safety Officer Staging	Repeater @ WOA / GC2
NS VHF Oilspill	29	Tactical	Tx- 173.225 Rx- 173.225	Response Branch Director and Response Branch Group Supervisors	
NS VHF Oilspill	59	Security	Tx- 160.725 Rx- 160.725	Security	

ICS 206 - Medical Plan

Incident: Response - GC2 Oil Transit Line Release **Prepared By:** Section, Planning at 3/14/2006 19:39

Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00) **Version Name:** 03/12/06 - 1500

Medical Aid Stations

Name	Location	Paramedics (On-Site)	Phone	Radio
BOC	WOA	No	659-4315	
PBOC	EOA	No	659-5239	

Transportation (Ground and/or Ambulances Services)

Name	Location	Paramedics	Phone	Radio
LifeFlight Air Ambulance	Anchorage, AK		(800) 478-9111	
Air Logistics - Anchorage	Anchorage, AK		(907) 248-3335/452	
Shared Services Medi-Evac Line	Anchorage, AK		(907) 263-3562	

Hospitals

Name	Location	Helipad	Burn Center	Phone	Radio
Alaska Regional Hospital	Anchorage, AK	Yes	No	(907) 276-1130/175	
Providence Alaska Medical Center	Anchorage, AK	Yes	Yes	(907) 562-2211	
Fairbanks Memorial Hospital	Fairbanks, AK			(907) 452-8181	
North Slope Borough Medical	Barrow, AK			(907) 852-2822	

Special Medical Emergency Procedures

All on site injuries will be reported immediately to the worker's supervisor and the BP safety advisor on site. Injuries are to be treated at the BOC medical clinic. Effective 1900, 3/12, There will be no EMT personnel on site.

All injuries are to be reported & recorded per existing BPXA reporting protocol.

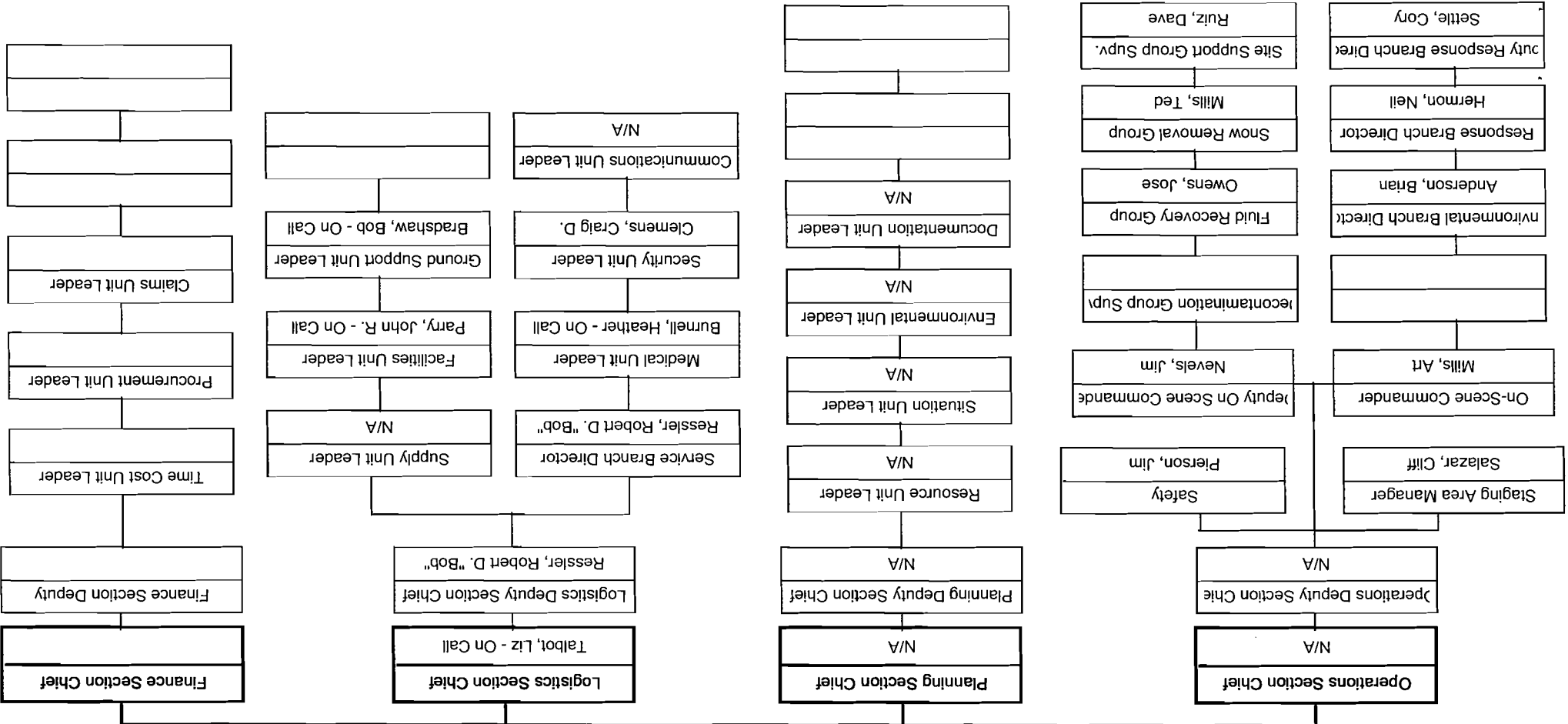
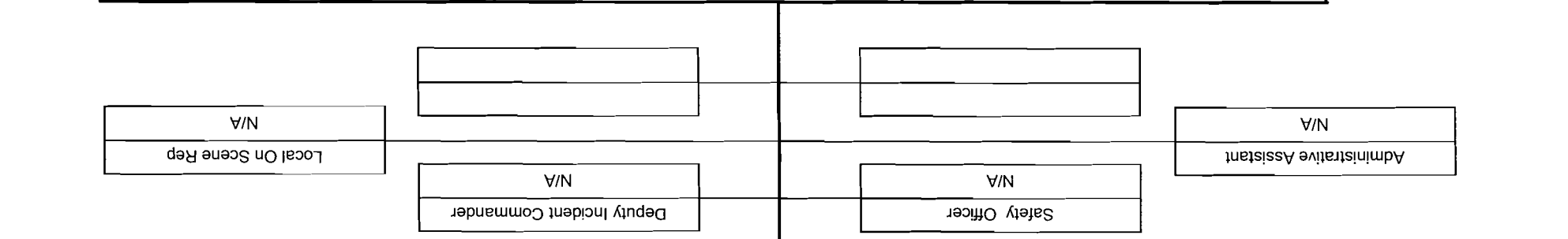
In the event of an emergency, call 911.

All injuries/incidents are to be covered/discussed during the daily toolbox/safety meetings.

ICS 207 - Organization Chart

Incident: Response - GC2 Oil Transit Line Release **Prepared By:** Section, Planning **at** 3/16/2006 08:45
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00) **Version Name:** Period 13 Night Shift (3/17/06 1900- 3/18/06 0700)

Federal On Scene Rep **Incident Commander** **State On Scene Rep**
 N/A Spiller, Jeff- On Call Dowd, Randy



ICS 207 - Organization Chart

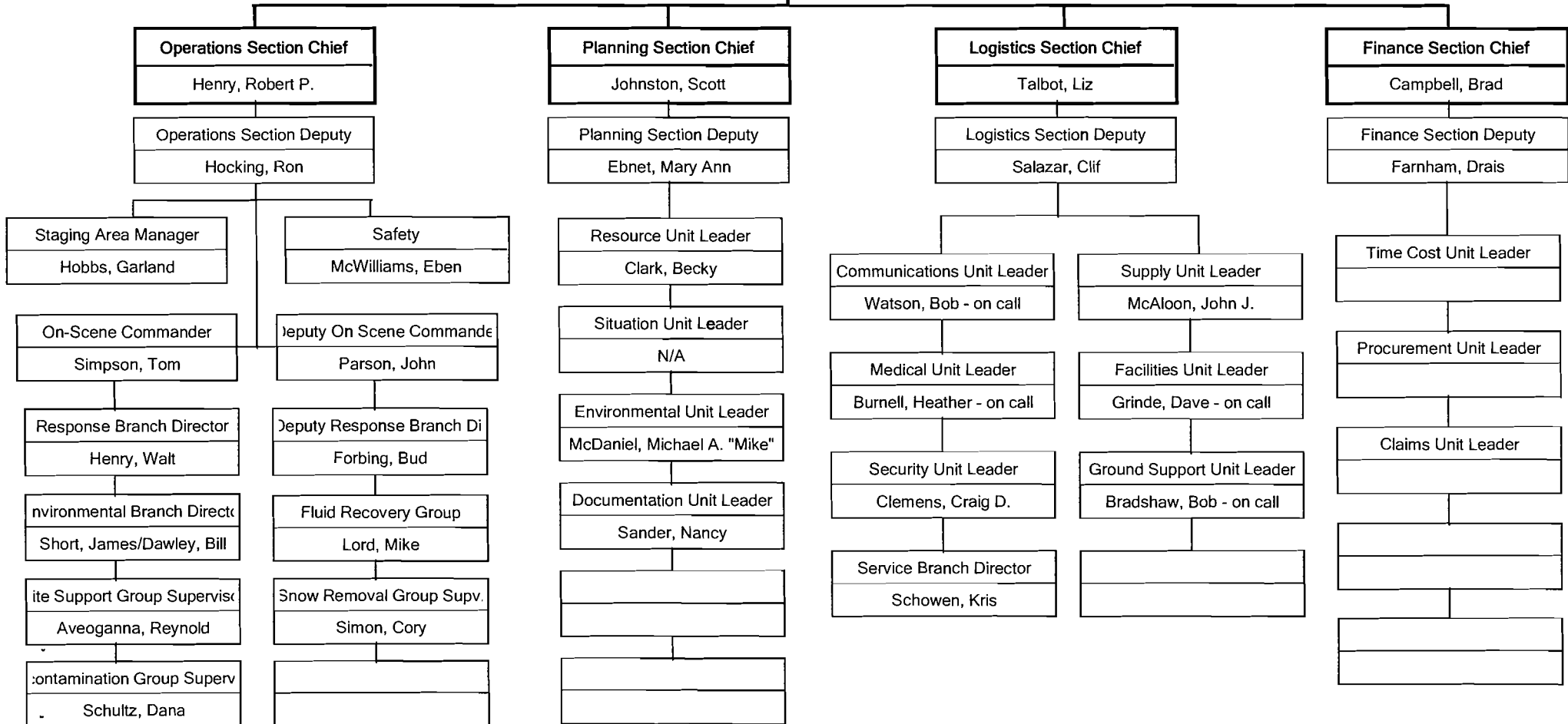
Incident: Response - GC2 Oil Transit Line Release **Prepared By:** Section, Planning **at** 3/16/2006 08:51

Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00) **Version Name:** Period 13 Day Shift (3/18/06 0700-1900)

Federal On Scene Rep	Incident Commander	State On Scene Rep
Marcus, Len	Spitler, Jeff	Sandel, Walt

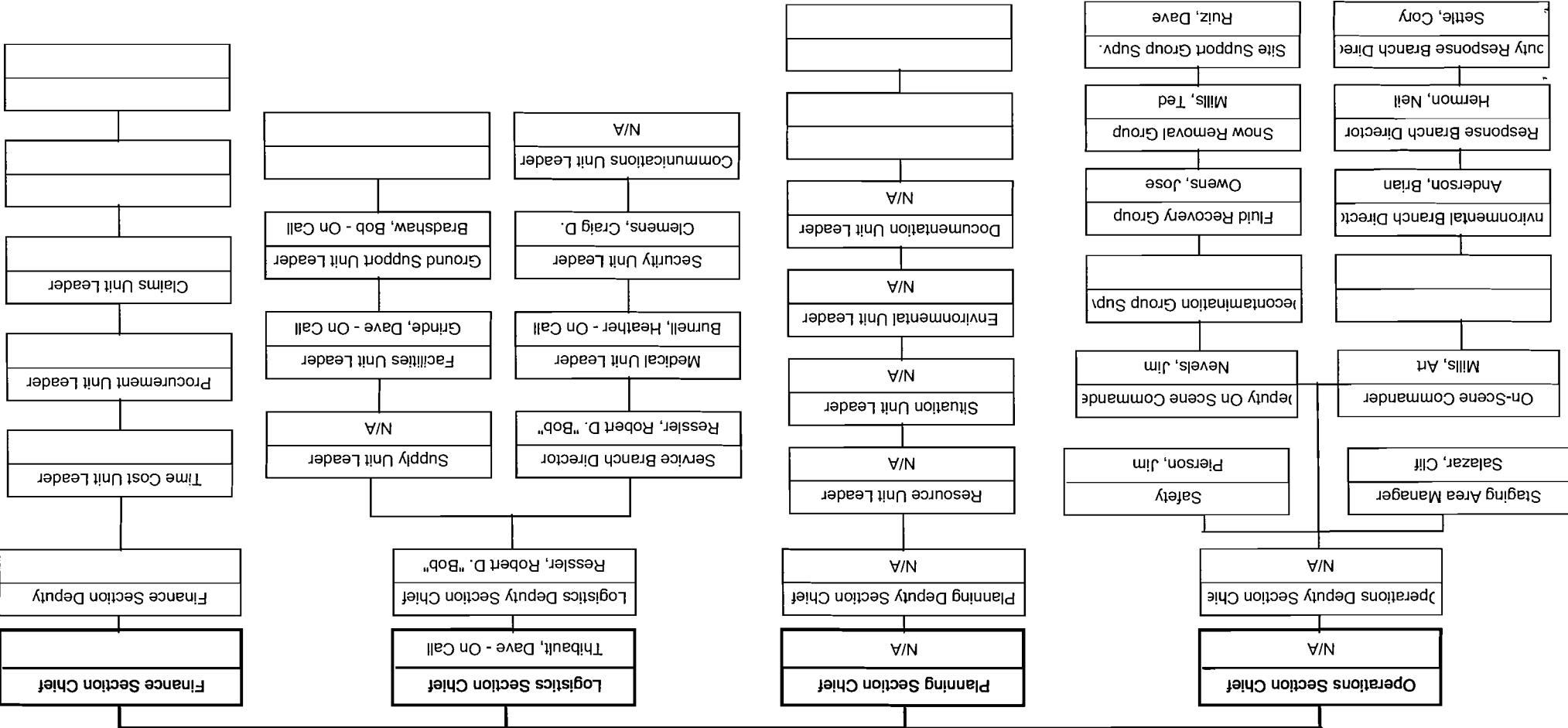
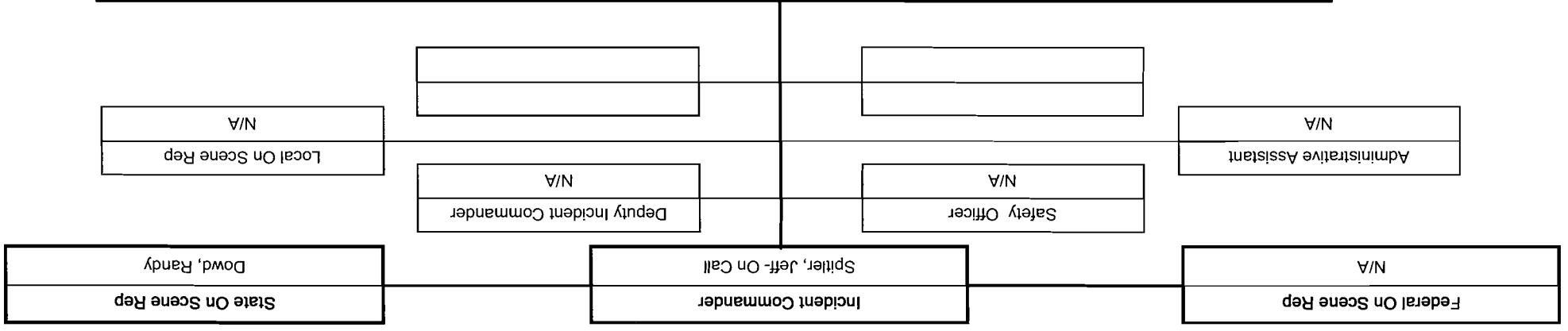
Safety Officer Schwemley, Mike	Deputy Incident Commander Barrett, James E. "Jim"
Information Officer Beaudo, Daren	Administrative Assistant Farmer, Paulette

Local On Scene Rep Falk, Martha



ICS 207 - Organization Chart

Incident: Response - GC2 Oil Transit Line Release
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00)
Prepared By: Section, Planning
Version Name: Period 13 Night Shift (3/18/06 1900- 3/19/06 0700)
 at 3/16/2006 09:05



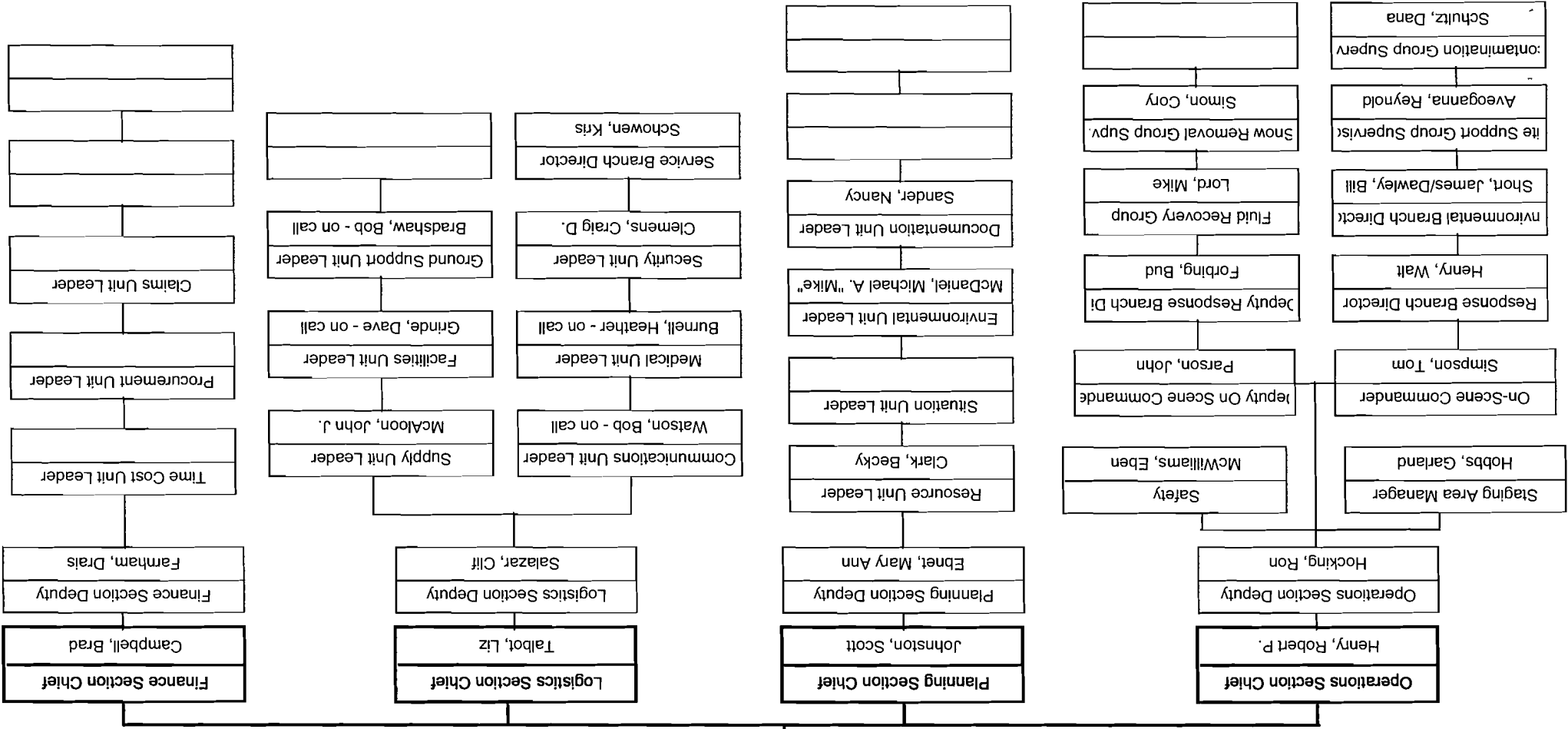
ICS 207 - Organization Chart

Incident: Response - GC2 Oil Transit Line Release **Prepared By:** Section, Planning **at** 3/16/2006 09:21
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00) **Version Name:** Period 13 Day Shift (3/19/06 0700-1900)

Federal On Scene Rep **Incident Commander** **State On Scene Rep**
 Marcus, Len Splitter, Jeff Sandel, Walt

Safety Officer **Deputy Incident Commander** **Local On Scene Rep**
 Schwemley, Mike Barrett, James E. "Jim" Falk, Martha

Information Officer **Administrative Assistant**
 Beardo, Daren Farmer, Paulette

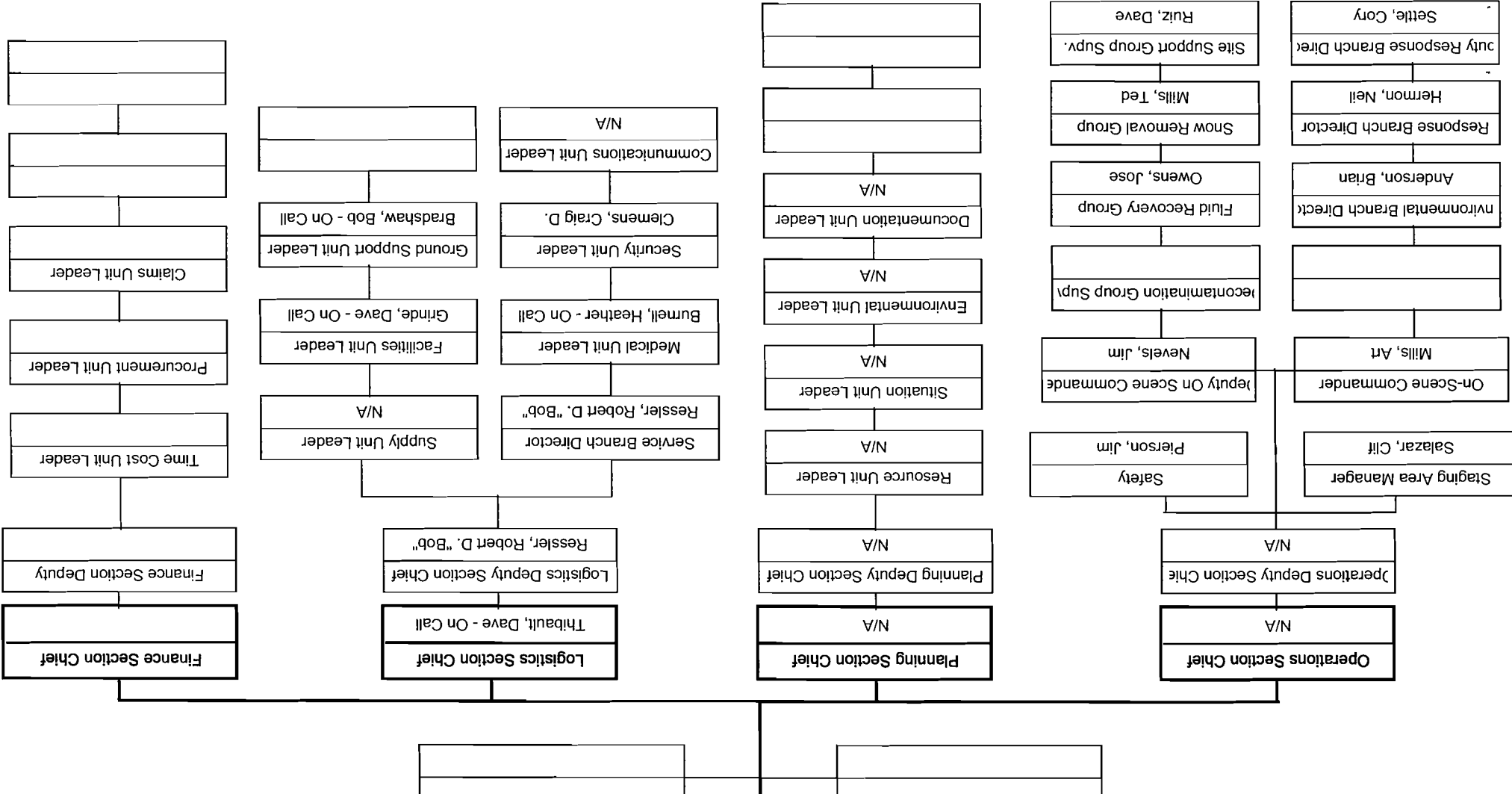


ICS 207 - Organization Chart

Incident: Response - GC2 Oil Transit Line Release
Prepared By: Section, Planning at 3/16/2006 09:25
Version Name: Period 13 Night Shift (3/19/06 1900 - 3/20/06 0700)

Federal On Scene Rep N/A
Incident Commander Splitter, Jeff - On Call
State On Scene Rep Dowd, Randy

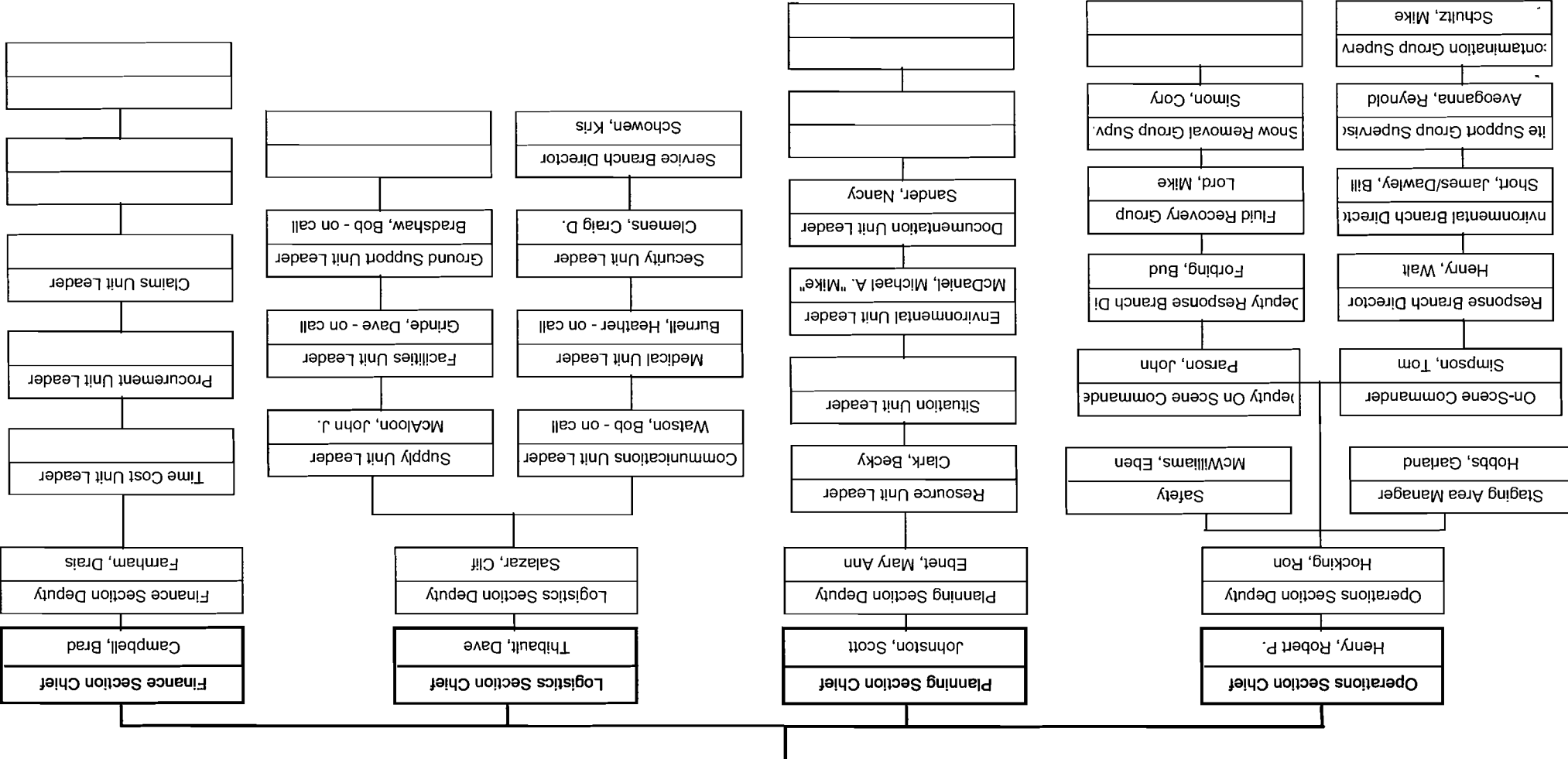
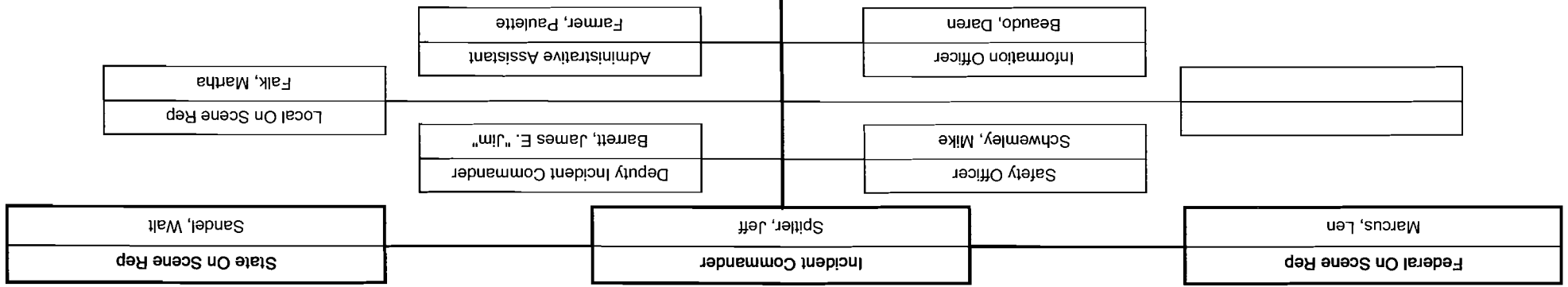
Administrative Assistant N/A
Safety Officer N/A
Deputy Incident Commander N/A
Local On Scene Rep N/A



ICS 207 - Organization Chart

Incident: Response - GC2 Oil Transit Line Release **Prepared By:** Section, Planning **at** 3/16/2006 09:40

Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00) **Version Name:** Period 13 Day Shift (3/20/06 0700-1900)

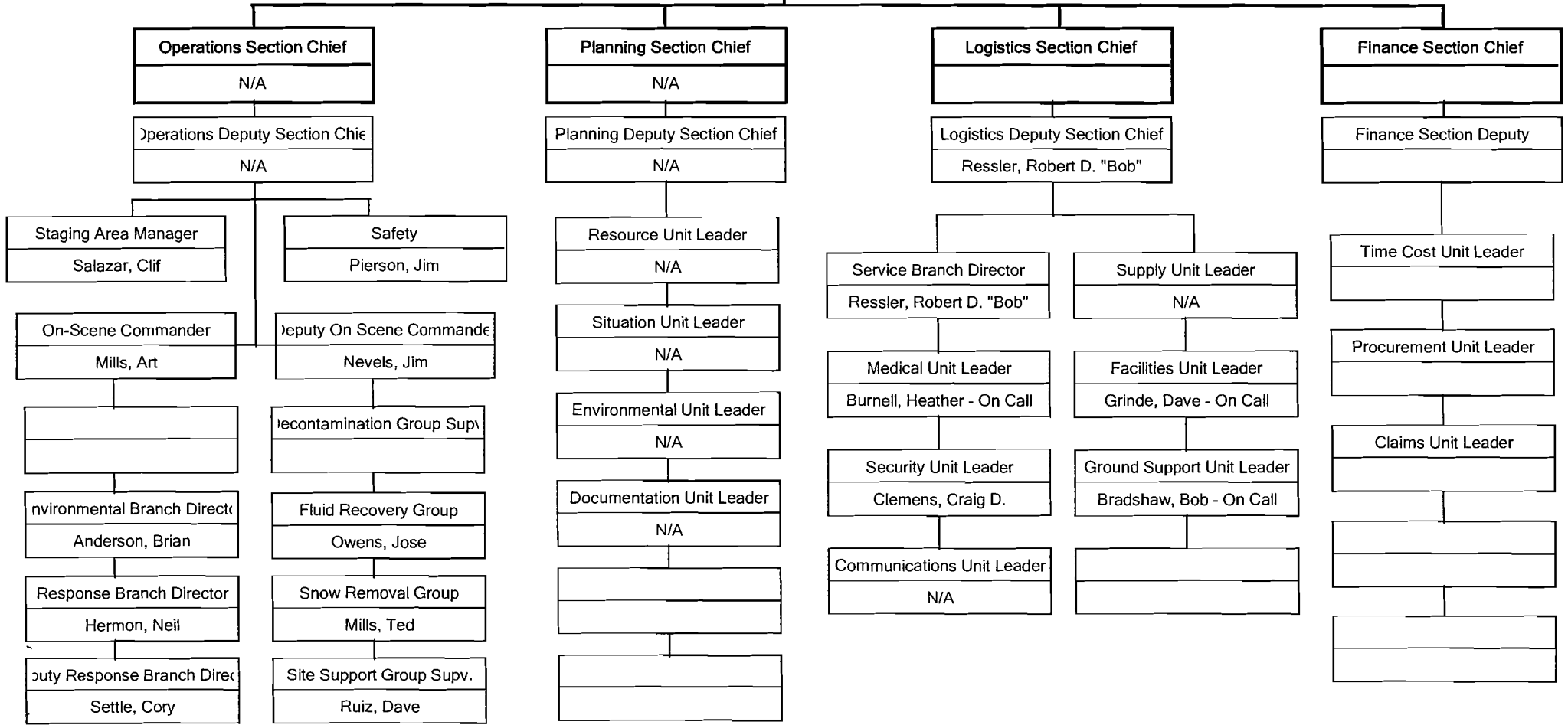


ICS 207 - Organization Chart

Incident: Response - GC2 Oil Transit Line Release **Prepared By:** Section, Planning **at** 3/16/2006 09:48
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00) **Version Name:** Period 13 Night Shift (3/20/06 1900- 3/21/06 0700)

Federal On Scene Rep	Incident Commander	State On Scene Rep
N/A	Spitler, Jeff - On Call	Dowd, Randy

Administrative Assistant N/A	Safety Officer N/A	Deputy Incident Commander N/A	Local On Scene Rep N/A



ICS 223 - Health and Safety Message

Incident: Response - GC2 Oil Transit Line Release	Prepared By: Section, Command at 3/14/2006 19:39
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00)	Version Name: 03/17/06 11:30

Major Hazards and Risks

- Major Hazards and Risk Potential
- Cold weather related injuries
 - Slips & falls due to uneven/slippy walking and working surfaces
 - Fatigue due to extended work periods/working in extreme conditions
 - Ergonomic/repetitive motion injuries
 - Chemical exposure
 - Congested/simultaneous operations (simops)
 - Inadequate hazard recognition
 - Dehydration
 - Distraction/loss of focus
 - General Health and Sanitation

Narrative

Be sure to abide by the buddy system and keep a very close eye on each other. ASH/ACGIH Cold Weather Protection Guidelines will be adhered to for all workers on site. As conditions dictate, work is stopped and a THA is conducted with all site personnel.

Ensure that walking/working surfaces are clear of snow/ice and debris. This includes stairways and landings. Scarify and cover with nutplug/sand/gravel as needed. Utilize anti-slip footwear. If working on the tundra - Be aware of snow caves and associated hazards. Along with the usual hazards associated with walking/working surfaces, the under-current of the product may have washed away the solid surface below your feet hidden by the snow.

Ensure that personnel are rested appropriate to the conditions they are working in. Long days and working in extreme temperatures will quickly take a toll on personnel. Having enough personnel to have an even number on site for working & warming up paramount.

Move personnel to different assignments so they are not continually performing the same task. Provide safety in motion (SIM) training tips for all personnel daily toolbox safety meetings.

Atmospheric hazard readings will be measured periodically for O2, LEL CO, H2S & benzene and ongoing readings will be taken periodically depending on location and activity. Proper PPE has been issued to all clean up personnel to prevent direct skin contact with the product. Current atmospheric readings have been below action levels at all site locations. Crews have been instructed to be current on individual fit testing in the event they need to wear a respirator. Safety personnel will evaluate and make the determination on PPE.

Be aware of heavy equipment and vehicles. Utilize appropriate staging areas for equipment. Utilize reflective wear while on location. Be aware of your surroundings at all time. Areas for equipment only should be flagged-off to keep ground personnel away. Review simops in THA with personnel at all locations with emphasis within the Hot Zone.

Hazard recognition must be an ongoing process throughout this operation. Task hazard analysis (THA) should be conducted prior to each shift and any significant change in work scope. The energy wheel should be used to generate the THA. Once again, be aware of your surroundings at all times.

Encourage all personnel to drink plenty of fluids throughout the day. Plenty of water should be on location 24 hours a day. Personnel should be provided with adequate breaks to hydrate.

It may be easy to lose focus given the long hours and tedious work. Personnel must have close supervision in an effort to remain focused.

Sanitation practices, particularly hand sanitation. This is the key to controlling the spread of pathogens. Follow basic sanitation practices such as washing hands thoroughly for at least 20 seconds after using the rest room. Wash thoroughly prior to eating. Use sanitizer prior to using food services and have available personal sanitizer gel products. Ensure food that spoil are refrigerated or kept in proper containers fit for purpose. Dispose of accumulated out dated food items.

ICS 224 - Environmental Unit Summary

Incident: Response - GC2 Oil Transit Line Release Prepared By: Section, Planning at 3/14/2006 19:39

Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00) Version Name: 3/17/06 12:30

Area Environmental Data

No Wildlife or Archaeological sensitive areas in spill zone.

Priorities for Mitigating Environment and Cultural Impacts

Continue monitoring site for wildlife sightings.
Tundra plan approved (but currently under revision); tundra specialist will be travelling to slope to assist with trimming activities; wildlife plan approved.

Wildlife Assessments and Rehabilitation

A wildlife interaction plan has been approved.

Permits (Dispersants, Burning, and/or Other

Tundra travel permit approved. Ice road and ice pad construction approved under Tundra Travel Permit. Gravel placement on Caribou Crossing #2 has been approved by Unified Command. Snow melter plan has been approved by Unified Command. Alert Env Unit of any additional permit needs (known or potential).

Waste Management

Updated Waste Management Recycle and Disposal Plans submitted and approved by Unified Command.
Gravel and tundra trimmings sampling and volume estimation sampling plan is being developed- requested by ADEC; sampling will not occur until gravel and trimmings have been fully removed and stockpiled.
Site Sampling and Analysis plan (for final site closure) is being drafted- this task is ongoing.
Lined storage area constructed at Drill Site # 4.

Other Environmental Concerns

Be extra vigilant to prevent spills to ice pad/ ice road- all fueling operations must use liner!
Developing a short, mid, and long term staffing plan.

Logistical Support Needs

None at this time.

ICS 230 - Daily Meeting Schedule

Incident: Response - GC2 Oil Transit Line Release **Prepared By:** Section, Planning **at** 3/14/2006 19:39
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00) **Version Name:** Period 13

Meeting Name & Date/Time	Purpose	Attendees	Location
SHIFT BRIEFING MTG EMOC 03-17-06 19:00 3/17/2006 19:00	Review current status of ongoing response activities and review the Incident Action Plan for the next operational period.	IC, Command Staff and General Staff	EMOC
SHIFT BRIEFING MTG EMOC 3/18/06 0700 3/18/2006 07:00	Review current status of ongoing response activities and review the Incident Action Plan for the next operational period.	IC, Command Staff and General Staff	EMOC
SHIFT BRIEFING MTG EMOC 3/18/06 19:00 3/18/2006 19:00	Review current status of ongoing response activities and review the Incident Action Plan for the next operational period.	IC, Command Staff and General Staff	EMOC
SHIFT BRIEFING MTG EMOC 3/19/06 0700 3/19/2006 07:00	Review current status of ongoing response activities and review the Incident Action Plan for the next operational period.	IC, Command Staff and General Staff	EMOC
SHIFT BRIEFING MTG EMOC 3/19/06 19:00 3/19/2006 19:00	To facilitate the establishment and maintenance of command and control over incident response operations	IC, Command Staff and General Staff	EMOC
SHIFT BRIEFING MTG EMOC 03/20/06 07:00 3/20/2006 07:00	To facilitate the establishment and maintenance of command and control over incident response operations.	IC, Command Staff and General Staff	EMOC
SHIFT BRIEFING MTG EMOC 03-20-06 19:00 3/20/2006 19:00	Review current status of ongoing response activities and review the Incident Action Plan for the next operational period.	IC, Command Staff and General Staff	EMOC

Disposal Plan GC2 Oil Transit Line Release Amended March 16, 2006

Description

On March 2, 2006 a hydrocarbon release was discovered from the oil transit line from GC2. This plan describes the procedure for handling contaminated gravel, snow, snowmelt, and fluids collected during the initial clean up of this release.

Cleanup & Interim Storage of Fluids

Pooled or free hydrocarbons will be initially collected in vacuum trucks and transported to the Flow Station 2 (FS2) facility for storage in isolated tank #1934 and subsequent hydrocarbon recycling. If fluids recovered on site are too viscous (due to low temperature) to be offloaded satisfactorily, the truck will pick up a known volume of hot water at the hot water plant prior to delivery at FS2. A notation will be made in the "comments" block of the manifest indicating the volume of water on-loaded at the hot water plant. The recovered volume of fluids loaded on the truck at the spill recovery site will be noted in the "volume" block of the manifest. The on-board/loaded capacity of the vac truck will be limited to 200 Bbls to accommodate the addition of hot water (if necessary). Other cleanup methods, which are beyond the scope of this Plan, will be addressed in the Incident Action Plan (IAP).

Disposal and Recycle of Contaminated Snow and Ice

Primary Site - CC2A: Contaminated snow and ice will be removed from the spill site via Maxihaul or other suitable dump trucks to CC2A Pad Concrete Line Waste Cell where it will be stored. Materials will be melted in a snowmelter located on pad. The resulting fluids will be collected in vacuum trucks and transported (with manifests) to the isolated Tank #1934 at FS2 for recycling.

Solids accumulating in the snow melter will be transported in an appropriate vehicle (such as a super sucker or other suitable oily solids transport vehicle) to DS-4 for injection at the G&I Plant, or stored in a suitable oily waste cell for future injection at the G&I Plant.

Oily debris recovered on site (not suitable for injection at G&I), oily rags and contaminated personal protective equipment will be collected in approved bags and accumulated in designated oily waste bins. Oily waste bins are processed and disposed by the North Slope Borough.

Gravel Recovery And Disposal/Reuse

Any contaminated snow cover will be scraped clear of the gravel and placed with other contaminated snow for pickup during recovery operations and hauled to CC-2A for interim storage at the CC-2A lined pit.

Uncontaminated gravel from the top of the culvert down the side to the culvert seam will be removed and transported in a suitable dump truck for future reuse Gravel

contamination will be determined by agreed upon field screening methods such as photoionization detector (PID) on-site sampling.

Contaminated gravel will be collected and transported in a dump truck and/or super sucker to the Grind and Inject (G & I) facility designated storage area. If possible, liquids will be removed and sent to the designated tank at FS2.

Disposal and Recycle of Decontamination WashBay/Flush&Crush Facility Rinse Water and Solids

Rinse water collected from thawing, washing and/or decontaminating equipment, hoses, etc. in the VECO, Peak, or Flush & Crush facility will be collected and segregated from other fluids in the washbay sumps and transported to the isolated tank at FS2 in an appropriate vacuum truck.

Solids accumulating in the wash bay sumps as a result of the activities mentioned above will be collected and transported (in an appropriate super sucker truck or equivalent) to DS-4 for injection at the G&I Plant, or stored in the designated G&I facility storage area.

Agency Approval to Dispose

With the exception of oily waste collected on-site and sent to the North Slope Borough via dumpster pick-up, no waste stream described in this plan will be disposed of prior to obtaining agency (ADEC) approval.

Waste Storage Locations

Volume accumulations and storage capacities may require that additional storage locations will be used than those specified in this plan; only permitted storage locations will be utilized.

Oil/Water Content Analyses of Recovered Liquids

Grab samples will no longer be taken for water content determination on vacuum truck loads. All collected-oil volumes will now be determined at the FS2 tank as described below.

FS2 Water Content Determination – Hydrocarbon-contaminated fluids collected from the release will be accumulated in the designated tank at FS2. This tank will be isolated from receipt of other facility or field fluids and will be designated for receipt of fluids from this release only. In addition, this tank has been prepared for receipt of these fluids by a process of filling and emptying it with crude oil several times and then evacuating it of all fluids to the low, low shut down point of 3.72 ft. to ensure the maximum amount of water in the tank has been removed. In addition, the pump and valves for evacuating this tank will be locked and tagged out to prevent inadvertent processing of the contents through the facility prior to obtaining an accurate volume determination

Settling of fluids in the FS2 collection tank will reveal the hydrocarbon and water interface. This process may be facilitated as needed with emulsion breaker and heat circulation. Once adequately separated, a total volume will be calculated and the water phase from this tank will be drained to the facility process. Material drained from the tank will be monitored throughout removal of the water phase. Once the water phase has been removed, a volume calculation will be made on the remaining oil phase with the volume of any emulsion breaker, which may have been added to the tank, subtracted from the resultant volume calculation to determine a net oil volume. The remaining oil-phase material will then be drained to the facility process.

Agency personnel will be notified prior to the removal or evacuation of the fluids in this tank into the facility for processing.

Record of Revisions:

March 4, 2006 revisions: Added discussion of contaminated snow and ice handling.
Added discussion of solids from snow melter disposal.
Added discussion of disposal of oily debris disposal.
Added discussion of disposal of rinsate and solids from washbay sumps.
Added amplifying information on the preparations, safeguards, and removal of fluids for tank #1934 at FS2.

March 5, 2006 revisions: Deleted references to vac truck sampling requirements for BS&W.
Added discussion of primary snow melting operations to be located on snow bermed area on lake north of spill site.
Added comments to include adding hot water to viscous recovered liquids to vac trucks to facilitate off-loading.

March 6, 2006 revisions: Deleted reference to snow melting on lake ice area.
Added discussion for gravel recovery and disposal.

March 8, 2006 Deleted reference to visual assessment for on-site screening.
Deleted reference to TPH samples from Supersucker.
Added comment about field screening.
Added comment about gravel storage area at G&I

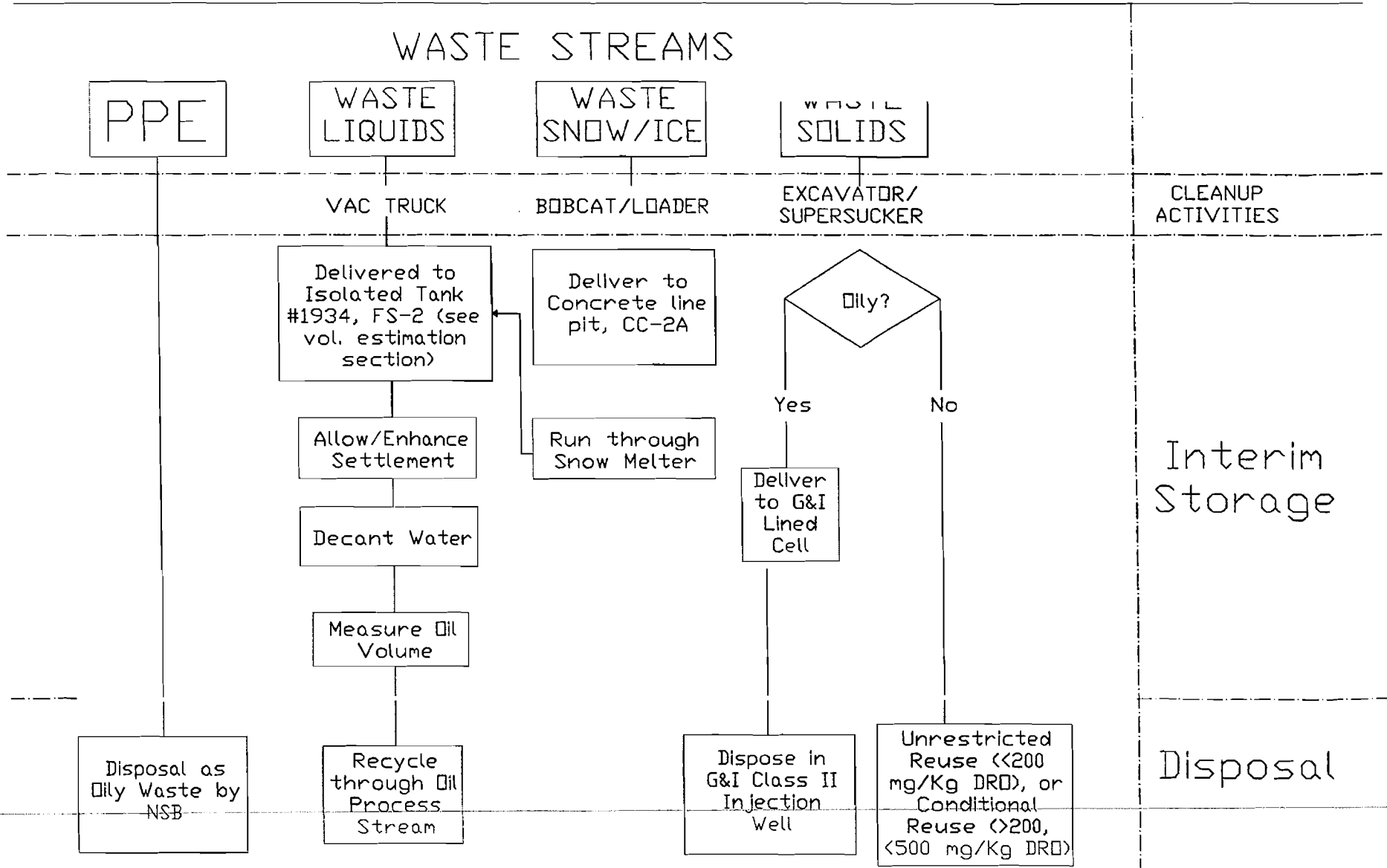
March 16, 2006 Added "Agency Approval to Dispose" and "Waste Storage Locations" sections.

J. Z. Spittle 3/16/06
Walt Kild ADES 3/17/06 SOSC
Matthew Falk 3-17-06 NSB/LWSC

ORIGINAL

WASTE DISPOSAL FLOW CHART GC-2 TRANSIT LINE SPILL

WASTE STREAMS



*NOTE: Sampling may be required to determine whether solids are 'oily' (above/below threshold).

GC-2 Spill Site Trimming Protocol Demonstration Plan

Commencing on March 16, 2006 at 10:00 a.m.

1. Use of Bobcat skid steer loader with 40' trimmer attachment for initial test. Trimmer will enter from the outside perimeter edge to avoid cross contamination.
2. Test area will be grid C-5 and/or C-4. Test area was discussed with John Engles (ADEC).
3. Task force leader in conjunction with SOSOC will serve as spotters for trimmer operator and determine the path and trimming depth of cut.
4. Will use skid steer loader staged inside the perimeter for removal of trimmed materials.
5. Recovered materials will be manifested for disposal by BP environmental personnel per waste disposal plan.
6. Upon successful demonstration of the above small scale protocol a large scale trimming demonstration using a 72" trimming head will commence using the same basic protocol.
7. Upon completion of the large scale demonstration a determination will be made on final protocols for long term trimming operations of the effected area. Trimming operations are expected to take 14 days to complete after process approval.

GC2 Incident --- Demobilization Plan

Project Name: GC2 Incident

Project Date: March 12, 2006

FOSC Approval: [Signature] Date: 3-13-2006

SOSC Approval: [Signature] Date: 3-13-2006

LOSC Approval: [Signature] Date: 3-13-06

RPIC Approval: [Signature] Date: 3-13-2006

Prepared By: Planning / Logistics

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- 2. Responsibilities
- 3. Release Priorities
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- 5. Long Term Planning Issues
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1. Summary

Demobilization is an orderly and cost effective process for the release and return of all response resources and personnel to their respective home destinations.

Personnel and equipment will be demobilized from the incident in accordance with this Plan.

This Demobilization Plan will be available for implementation upon approval of the Unified Command / IMT.

Resources which are no longer required for the response to the incident will be demobilized as rapidly as is feasible. They will be released in the following general priority.

- Priority I - Resources required to be returned to emergency services.
- Priority II -Resources mobilized from offsite, including equipment rentals, Anchorage staff etc.
- Priority III -North Slope contractor / Local resources
- Priority IV- BPXA and ERT/SRT owned resources

All equipment will undergo appropriate decontamination prior to demobilization.

The On Scene Commander or their delegate, and / or Unit Leaders will identify resources which are available for demobilization. A list of these resources will be forwarded to the Logistics Section Chief.

Logistics, in association with the Operations Section Chief and the Planning Section Chief will verify that the resource is not planned for use on another task.

Final demobilization approval shall be obtained from the Incident Commander, or his / her delegate. The Incident Commander will request the Logistics Section to provide regular updates to Unified Command as needed (recommend in Assessment Meetings).

2. Responsibilities

The **On Scene Commander** (or delegate) and / or **Unit Leaders** will identify potentially surplus resources for demobilization. This will be sent to the Demobilization Unit Leader and the Logistics Section Chief.

The **Demobilization Unit Leader** and the **Logistics Section Chief** will work together to prepare a list of resources recommended for demobilization, utilizing an ICS 221 Demobilization Checkout Form.

Appropriate **Unit Leaders** and **Section Chiefs** will review & complete the ICS 221 form and verify that the recommended resources may be demobilized, once approved by the Incident Commander.

The **Incident Commander** is responsible to:

- approve resources for demobilization (this authority may be delegated by the Incident Commander);
- approve exceptions according to North Slope policies / procedures;
- ensure all Section Chiefs, response team leaders and appropriate IMT personnel complete an incident critique;
- facilitate, coordinate or delegate the incident critique process; and
- direct that all critique forms are received and retained by the Documentation Unit.

Logistics Section Chief is responsible to

- Ensure, through the **Facilities Unit Leader**, that base camp clean-up requirements have been met prior to release.
- Ensure, through the **Supply Unit Leader**, that all nonexpendable property items are returned or accounted for prior to release.
- Ensure, through the **Ground Support Leader**, that adequate ground transportation is available to get resources needing transportation to the airport; arrange decontamination, provide safety inspections and repairs of a safety nature on company owned vehicles, engines and equipment under hire prior to release.
- Ensure, through the **Support Branch Director**, that appropriate flight reservations are made according to procedures outlined in the *Flight Reservations and Billeting* processes prepared by the North Slope Support Group;
- Ensure, through the **Communications Unit Leader** that all communications equipment issued from the incident is returned or accounted for prior to release and to demobilize the Emergency Operations Center.
- Ensure through the **Food Unit Leader** that there will be adequate meals for those being released and for those remaining in camp.

Alaska Clean Seas is responsible to:

- Get approval from the **Operations Section Chief** prior to releasing resources.
- Notify their sub-contractors of released resources.
- Arrange transportation (air, bus, etc.) and any lodging for their resources and sub-contractors.
- Provide oversight / verification of final equipment decontamination.
- Recover non-consumable PPE items issued to their subcontractors.

Supervisor, North Slope Emergency Services is responsible for developing the National Preparedness for Response Exercise Program (PREP) package to obtain drill credit where possible.

3. Release Priorities

All resource releases will be initiated by the Demobilization Unit Leader / Planning Section after receiving approval from the Incident Commander / delegate. When possible, equipment and personnel will be released in groups by geographic location to minimize delays and travel cost. Resources will be released per the following priorities:

- I. Resources required to be returned to emergency services.
- II. Resources mobilized from off-site, including equipment rentals, Anchorage Staff etc.
- III. North Slope contractor / local resources.
- IV. BPXA and ERT/SRT owned resources.

4. Release Procedures

Released resources, including IMT personnel, must follow the procedures outlined below.

- 1) Resources needing decontamination shall proceed to the Decontamination Area. Once decontamination has been completed, the supplier / vendor will sign off that the resource was released from the incident. This will be documented on the appropriate ICS 211 form as having been released / demobilized.
- 2) Resources **not** needing decontamination, will be "checked out" on the appropriate ICS 211 form as having been released / demobilized.
- 3) The Resource Unit Leader will be informed that the resource has been demobilized.
- 4) Electronics, tools, borrowed supplies: Logistics staff will facilitate return of any borrowed items, electronic equipment, cell phones, and office equipment, to the lending departments.
- 5) Transportation of resources released will be arranged by the respective contractor or agency and coordinated with the Logistics Section. Release requests needing air transportation must be received by the Logistics – Support Group a minimum of 48 hours ahead of planned release time.

After being released all resources will be managed according to North Slope policies.

The following general guidelines are to be followed:

- 1) All personnel released will follow North Slope administrative procedures for travel arrangements.
- 2) Incident critiques will be completed and turned into the Documentation Unit. Personnel will turn in all Responder Logbooks/Unit Logs (ICS-214) to the Documentation Unit.
- 3) ANY EXCEPTIONS TO THE ABOVE WILL REQUIRE WRITTEN APPROVAL FROM THE INCIDENT COMMANDER.

5. Long Term Planning Issues

Resource Tracking / Materials Management - Consideration must be given to maintaining and documenting resource tracking information in order to transition from incident response resource management using the IAP software, to normal operations processes and potential use of new systems such as CMMS PassPort.

Re-activation of IMT and Unified Command - Consideration must be given to enable the timely activation of an IMT, supported by Unified Command, as spring thaw approaches, should additional areas of impact be located. Resources need to be available for rapid redeployment, should they be needed again.

6. Simplified Flow Chart

- Identify Potential Resources for Demobilization
- Forward List of Potential Resources for Demobilization to the Logistics Section Chief and the Demobilization Unit Leader

Responsibility: On Scene Commander / delegate & Unit Leaders

- Prepare Initial ICS 221 Form (Demobilization Checkout Form) & evaluate benefits / risks of demobilizing based on existing and potential work assignments

Responsibility: Logistics Section Chief & Demobilization Unit Leader; coordinate with Operations and Planning Sections

- Present ICS 221 Demobilization Checkout Form to Incident Commander for approval
-

ICD 24-8

VS 3/15/06 j b

ORIGINAL

GC-2 Spill Site Snow Melt Plan

Two (2) snow melters will be set up on the ice pad outside of CC2A pit. Snow melters will be placed inside secondary containment and operated/monitored by two (2) personnel 24 hours a day. Materials will be fed to the snow melters from the adjacent pad CC2A pit with a small loader. If more snow is removed from spill site for delivery to CC2A pit, ice pad and access ramp to pit will be cleaned prior to delivery. Intermittent loads will no longer be hauled to CC2A. Additional snow will be accumulated at the spill site and hauled in bulk to minimize operational impacts. Melted fluids will be manifested for disposal by BP Environmental personnel per waste disposal plan.

ORIGINAL

GC-2 Transit Line Spill
Tundra Treatment Plan

Plan Objectives

The overall goal is to minimize further long term damage to the tundra during oil spill cleanup operations and to help restore the tundra damaged from the oil spill.

The guiding principles for selecting tundra cleanup, treatment and monitoring tactics are the following:

- Collect as much gross oil contamination as possible while to the maximum extent practicable minimizing destruction of the root zone of the tundra grasses, unless it is determined that the oil has thoroughly saturated the root zone and it will not be viable in the future.
- Plan and select tactics to minimize tundra erosion, thermokarsting and creating a 'lake effect' at the spill site.
- Capture and understand lessons learned from other tundra cleanup operations, especially winter operations, to improve success
- Protect lake at Q Pad from oil migration from site, especially during breakup or through the employ of any flooding techniques
- Minimize mobilization of oil and contamination of previously low, or un-contaminated areas of tundra
- Progress the understanding and knowledge around the use of ACS tactics relating to oil spill response on tundra.

The following plan was developed in coordination with the Alaska Department of Environmental Conservation (ADEC) and is based on methods outlined in ADEC's Tundra Treatment Guidelines with peer review from EPA and NSB.

Oil Removal and Tundra Cleanup

Stage I: Gross Oil Removal

Three primary techniques will be used for gross oil removal as follows:

- Direct suction will be used collect free oil (T7). This technique will be used throughout all stages of cleanup.
- Oil contaminated snow will be removed using mechanical means (T10).
- Gross oil remaining on the tundra surface after free oil has been removed will be collected by placing clean snow as a sorbent layer on the area. The subsequent contaminated snow will be removed by mechanical means (T4, T10).

Stage II: Oiled Tundra Cleanup

Stage IIA: Trimming Contaminated Snow and Vegetation Canopy (T24)

Trimming is the preferred method to remove the contaminated snow and vegetation canopy, and will be used wherever possible throughout the entire contaminated area, with the possible exception of a test cell to evaluate the effectiveness of the flushing tactic, as described in Item 3 below.

1. Trimming will go down to the ground surface and part of the organic peat layer may also be removed in the trimming process, but care will be taken to avoid removal of the organic layer and mineral soil as much as possible.
2. In order to maximize the removal of contaminant, shaving of small hummocks of high ground may be unavoidable. If the removal process reveals a solid path of brown moss behind the trimmer, then the operation will be examined to determine if hydrocarbon removal has been adequately accomplished and/or if other removal tactics would be preferable to avoid damage to the vegetation and soil. Other removal tactics, and criteria for when they may be used, are described in Section IIC (Selection/Application of Other Treatment Options) below.
3. A test of the flushing tactic may be conducted to evaluate the effectiveness of this technique, most likely in an area determined to have moderate to low contamination. Methodology may include:
 - Establish a test cell; cell dimensions will be determined in the field.
 - A map of possible test locations will be provided by Alaska Biological Resources (ABR) to Environmental Unit.
 - Timing of any test flush will be coordinated with ABR to occur just prior to the site assessment.
 - Special measures will be taken to ensure that flushing does not mobilize oil into previously clean areas. These measures may include use of topography to ensure water flow is away from cleaned areas, careful balance of additional water (flushing) and subsequent removal (pumping or vacuuming), and/or putting down boom to divert flush water from cleaned areas.

Rationale/Considerations Applied in Selection of Trimming Treatment

To achieve the objectives of this Plan, it is imperative to remove as much of the contaminant as possible before breakup. While the tundra vegetation is dormant and tundra travel is permitted, the most should be made of these conditions for cleanup. Once spring growth begins and the soil thaws, activity on the tundra will cause damage that may persist for several years. The tundra vegetation is most susceptible to traffic as it commences spring growth and least susceptible when dormant.

Some cleanup options, such as burning and tundra excavation, should only be used after gross removal has been accomplished, and in any case are only feasible after breakup and

spring thaw. Other options, such as flooding or flushing, require significantly more time than trimming to complete to the same level of effectiveness, unnecessarily consuming the valuable time that remains before breakup. In addition, flooding or flushing can remove soil particles from around the root systems of the plants, compromising the viability of the vegetation. Trimming can be done now while the tundra is still frozen and snow-covered, and it can be done in a relatively short period of time, leaving time for assessment and subsequent cleanup options to be implemented as needed.

Physically removing contaminated snow down to the vegetation canopy should have little impact on the vegetation. Removing the plant canopy (leaves and stems above ground) above the organic peat layer at the surface of the soil will not cause major damage to the tundra vegetation, but removal of peat and soil would result in some loss of tundra vegetation. In order to maximize the removal of contaminant, shaving of small hummocks of high ground and inadvertent removal of the organic peat layer and the upper soil layer in some areas may occur. Nevertheless, revegetation is more easily accomplished than dealing with long-term hydrocarbon contamination.

Stage IIB: Site Assessment

After trimming of the contaminated snow is completed, a site assessment will be conducted to assess residual surface oil and infiltration depths into the tundra throughout the site, as follows:

- Site assessment will be based on 25' grid pattern, and will include visual observation and/or agreed upon field screening measurements such as photoionization detector (PID), Petroflag, etc.
- The site assessment results will be used to subdivide the contaminated site into areas of like contamination, and a map will be produced of low, medium and high contaminated areas.

Stage IIC: Selection/Application of Other Treatment Options

The following treatment tactics have been identified as potential options for removal of contamination remaining after trimming:

- Tundra Trimming (Organic Layer and Mineral Soil) (T24)
 - Trimming would be used to remove the remaining organic layer above the soil if saturated with oil. Past experience shows that the organic layer (mostly dead moss) is very absorbent and holds moisture and hydrocarbons readily. Removal of contaminated organic matter on the surface of the soil would prevent contamination migration to the mineral soil, which should be avoided if possible since cleanup and *in situ* decomposition is very difficult once contamination reaches this portion of the tundra soil profile.

- If contaminated, the top 1-3 inches of soil would also be removed. Care would be taken to avoid excavation of undamaged root zones, although loss of some roots and loss of the seed bank are inevitable results of trimming.
 - Most likely this option will be used in at least part of the spill area where oil has penetrated into the tundra mat, and other tactics less damaging to the tundra vegetation are determined to be ineffective due to the level of contamination and the plant community's tolerance to oiling.
- Flushing (T2)
 - Tundra would be divided into manageable cells and flushed with warm water (<106°) to allow free oil to float which can then be removed with skimmers or suction.
 - This option may be used in areas where the oil has not penetrated into the tundra mat. Criteria applied in selecting this tactic in a given area will include the level of contamination (i.e. less likely to be effective in highly contaminated areas), technical feasibility (i.e. local topography with trenches or swales for flush water recovery), potential for contamination of adjacent clean areas, and other practical considerations (e.g. water handling and processing, and storage/tankage). These considerations render application of flooding on a large-scale impractical. Ambient temperatures in current winter conditions would likely render this alternative impractical.
- Vegetative Burning (T6)
 - This tactic will only be used with prior approval of the designated State spill response coordinator. Request for approval would include a description of the area(s) desired to burn, and an explanation of why it is the preferred option for these areas.
 - Use of this tactic would involve the following decision logic:
 - 1) Is mechanical containment and recovery feasible and adequate? If yes, do not burn. If no;
 - 2) Do fire/safety hazards preclude the use of burning, after consultation with Safety personnel as to the risks presented by piping, utilities, etc.? If yes, do not burn. If no:
 - 3) Is vegetative burning feasible? If no, do not burn. If yes;
 - 4) Will humans be exposed to smoke/particulates of more than 150 $\mu\text{g}/\text{m}^3$? If yes, can they be protected by secondary controls? If no,

do not burn. If yes, then obtain State approval and proceed with burn.

- This tactic would most likely be limited to spot burning with a weed-burner, in areas where removal of petroleum residue is needed following gross removal with other tactics. This procedure is meant to only burn surface contaminated vegetation and not damage the root system. Burn would be monitored, and constant watch maintained on the fire and smoke plume, and other safety hazards and issues.

- Tundra Excavation (13)

- This tactic will only be used in extreme circumstances as defined in ADEC's Tundra Treatment Guidelines, when no other treatment would be effective and in very limited areas, and only with prior approval of the designated State spill response coordinator. Request for approval would include a description of the area(s) desired to excavate, and an explanation of why no other treatment tactics will work.
- Removal of soil below the root structure with subsequent backfilling with clean fill material. There is more than enough overburden stockpiled from creation of gravel cells at the gravel mine site available for fill.
- Should be considered only when contamination levels are toxic to all plant growth. An on-site tundra vegetation expert will make such determination.
- Could be considered in heavily contaminated tundra near the Q Pad lake to reduce migration of contamination to the lake.

Which of these treatment tactics would be best in any given area can not be determined until initial cleanup (Stage I and Stage IIA) has been completed and a site assessment has been done. Tentative cleanup options for contaminated areas will be identified, based on the following criteria:

1. Level of contamination remaining after Stage I and IIA cleanup;
2. Technical feasibility;
3. Expected effectiveness, given site-specific considerations;
4. Minimization of adverse impacts from cleanup tactics;
5. Potential for contamination of neighboring clean areas and other areas of special concern (e.g. Q Pad lake).

Cleanup tactics may be altered in the field if nature or extent of contamination in a given area is determined to be different than what the selected option is predicated on, or if the selected option is determined to be infeasible, ineffective, or less desirable (based on the

criteria described above) than another option, to allow the field cleanup team the flexibility it needs to incorporate new information or respond to changing conditions. Nevertheless, use of burning, flushing, or tundra excavation would not be used without prior State approval.

Stage III: Site Remediation

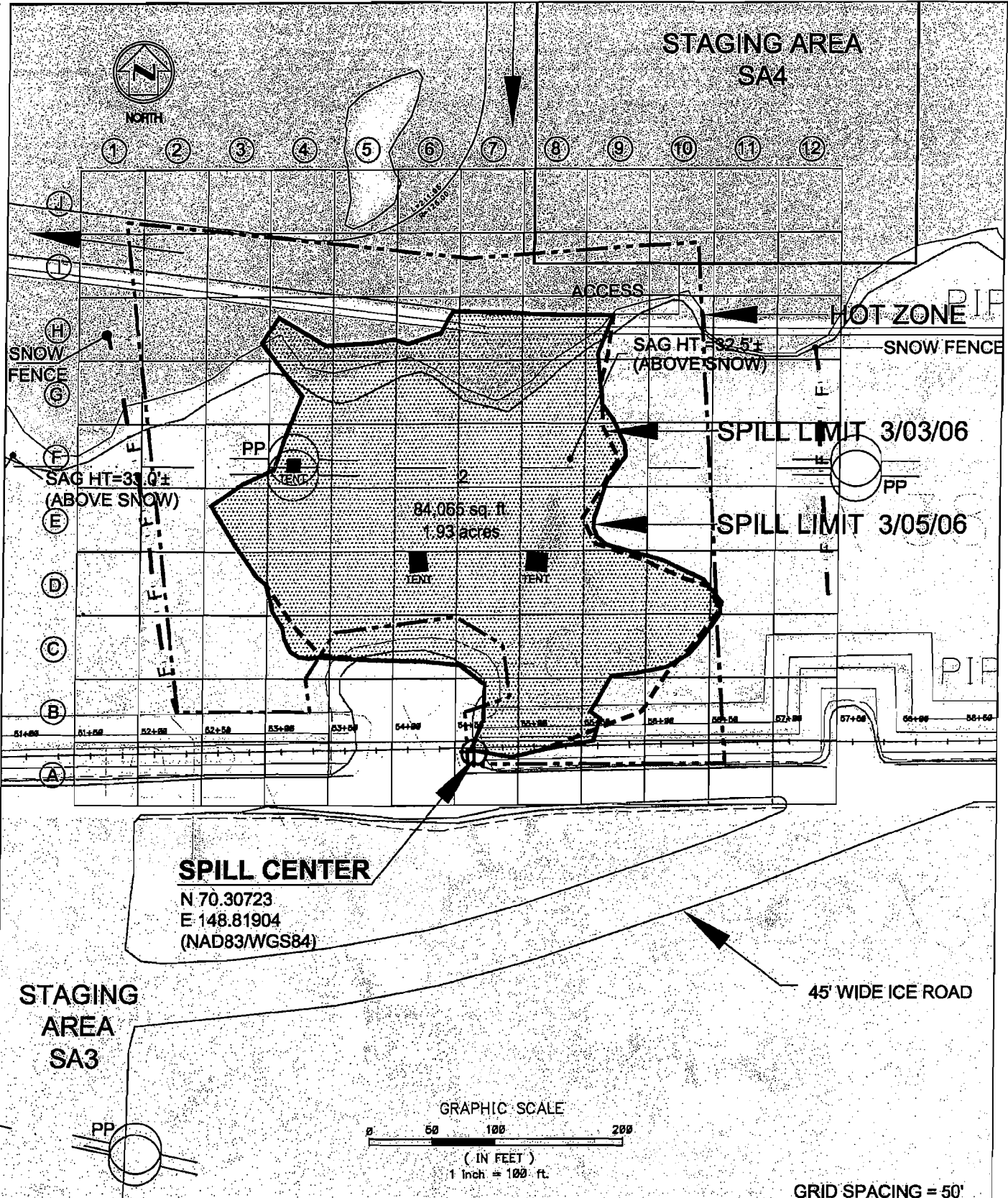
Site remediation will include the following steps:

- Repeat site assessment from Stage IIB to re-characterize current site conditions and select remediation options.
- This will be done in preparation for spring breakup and summer season.
- Treatments/tactics will include actions to prevent offsite migration of residual hydrocarbons.
- Monitoring protocol will be established and will include:
 - Sampling
 - tundra evaluation by technical expert
- Seeding and fertilization with appropriate species and nutrient mix to be considered in summer 2006 and summer 2007.
- Development of closure criteria for site including performance standards for vegetation community to be developed after clean up is completed and site has stabilized, but no later than Autumn 2007.
- BP will submit a site sampling and analysis plan (SAP) for Alaska Dept. of Environmental Conservation approval. A third party consultant will prepare the SAP and conduct the associated field tasks, including the collection of soils (gravel and tundra) and water (surface and possibly subsurface meltwater) samples to be submitted for laboratory analysis.

Stage IV: Site Monitoring and Management During Breakup

- Regular site inspections will be conducted to ascertain presence of hydrocarbons during break-up. Frequency and methodology of inspections will be determined by site conditions, and will change as needed to respond to changing conditions during break-up.
- Treatments/tactics will include actions to prevent migration and to collect residual hydrocarbons for recycle and/or disposal. This would include:
 - 1) Possible deployment of containment boom near shore on lake with sorbent boom deployed inside it;

- 2) Deployment of sorbent boom in polygonal channels;
 - 3) Potential use of sorbent pads, pumps and/or vac trucks, if necessary, to mop up or vacuum pools of water with sheens or other visible indications of hydrocarbons on polygonal channel surface water; and
 - 4) Other strategies as dictated by site conditions.
- BP will minimize any impact to wildlife per an approved wildlife interaction plan (currently being drafted); impact prevention techniques will include permitted passive and (if necessary) active hazing. Extra vigilance will be employed during the period of time just prior to and during spring break-up, when most migratory birds typically arrive and congregate.
 - Assess effectiveness of site monitoring and maintenance activities.
 - May have to incorporate tactics for additional tundra treatment as mentioned in Stages II or III.



NO.	DATE	REVISION	BY	CHK
4	3/12/06	AS-BUILT SNOW FENCES & TENTS	JMF	LOH
3	3/10/06	AS-BUILT STAGING AREA SA3, ADDED SNOW FENCES & TENTS	JMF	LOH
2	3/7/06	REVISED 60' ICE PAD TO 40' ICE ROAD	JMF	RFA
1	3/7/06	ADDED 60' ICE PAD	JMF	RFA
0	3/6/06	ISSUED FOR INFORMATION	JMF	RFA

F. Robert

ASSIST
 ENGINEERS AND LAND SURVEYORS
 801 WEST FRANKLIN LANE
 ANCHORAGE, ALASKA 99503

DRAWN: JMF
 CHECKED: RFA
 DATE: 3/6/06
 DRAWING: SPILL LOCATION GRID
 JOB NO:
 SCALE: 1" = 100'



GC2 TRANSIT LINE
 MARCH 5, 2006
 OIL SPILL LOCATION GRID

SHEET:
 1 of 1

TUNDRA TREATMENT PLAN

Unified Command Signature Page

J. A. Featherberry 3/15/06

J. Rodri 3/15/06

Matthew J. Falk NSB/LOSC 3-15-06

J. Z. Spittle 3/15/06

**Wildlife Interaction and Deterrence Plan
GC-2 Oil Transit Line
BP Exploration (Alaska) Inc.
Greater Prudhoe Bay, Western Operating Area
15 March 2006**

Introduction

On March 2, 2006 a hydrocarbon release was discovered from the oil transit line from GC2. Initial volume estimates (subject to change) indicate that approximately 200,000 gallons of crude was released to the snow covered tundra. The purpose of this plan is to identify the options BP may employ to minimize any potential impacts from the release to area wildlife. The options identified below may be considered for approval and implementation by the Unified Command, and/or the applicable regulatory agencies.

Affected Environment

The material was released onto approximately 1.93 acres of frozen, snow covered tundra and the edge of a tundra lake (referred to as Q Pad lake). In the summer season, the area consists of wet tundra adjacent to a tundra lake. Arctic fox, musk ox, caribou, ravens, and snow buntings may utilize the area throughout the year. Polar bears and/or grizzly bears may also be observed in the field as they emerge from their dens. As breakup approaches, geese, loons, swans, waterfowl, shorebirds, seabirds, and raptors will begin to return to the North Slope.

Wildlife Interaction/Hazing plan

This plan incorporates tactics outlined in the Alaska Clean Seas Technical Manual, Volume 1: Wildlife Section. The exact tactics or materials used in this response will be determined based on the animals encountered, the season, and site conditions.

General guidance on wildlife interactions for field personnel can be found in the North Slope Environmental Field Handbook, Section 6. All personnel are expected to adhere to the information presented in this handbook. Personnel are informed of wildlife avoidance practices and wildlife interaction response through on-site briefings.

Two practices are implemented to discourage wildlife from approaching the site:

- **Waste Management (applicable during the spill response phase):** To minimize the potential for wildlife interactions at both the spill site and the associated staging areas, proper oilfield waste management practices will be implemented. Bear-proof dumpsters are utilized for all food waste. Oily waste dumpsters and landfill dumpsters are on site for other industrial waste. Doors to warm up shacks where food or garbage is stored will remain closed.
- **Passive Hazing:** In the event that wildlife are in the vicinity of the work site and are at risk of exposure to spilled material, passive hazing measures will be implemented. The following passive hazing devices may be used without a permit:
 - Mylar flagging
 - Scare eye balloons
 - Effigies
 - Snow fence/wildlife fence around spill area
 - Yelling, waving arms

As a preventive measure, BPXA will install snow and/or wildlife fences as a physical barrier to deter wildlife from entering the spill site. The fence will remain in place as long as weather conditions (i.e., snow banks) allow. Additional passive hazing methods will be deployed as needed. As animals become acclimated to deterrent devices that remain in place for extended periods of time, devices will be rotated at the discretion of the ACS site supervisor.

Only trained personnel are authorized to deploy or practice passive hazing methods. Alaska Clean Seas has 16 Spill Response Team members who have received USDA bird capture and stabilization training from Cory Rossi.

As site conditions continue to change and wildlife presence in the spill area increase, there is potential that active hazing techniques may, as authorized in ACS permit FG05-III-0012 (Bird Hazing), FG05-III-0013 (Mammal Hazing), be initiated. The Alaska Clean Seas Technical Manual - Wildlife Tactics have been approved for use in spill response and will be employed as necessary. The exact tactics used will vary depending on the situation.

In the event that a bird or mammal is oiled due to the spill, Alaska Clean Seas will utilize procedures outlined in the Technical Manual and authorized in permits FG05-III-0014 (Mammal Stabilization, Transport & Disposal), and MB772518-0 (Capture, Salvage and Rehabilitation of Migratory Birds & Raptors) to capture, rehabilitate, or salvage animals.

Record Keeping

Spill responders will notify the ACS on site supervisor when wildlife is observed in the vicinity. If necessary, the on site supervisor will implement appropriate ACS Technical Manual wildlife tactics and initiate the notification and approval process (Appendix 24 and 25) through the BPXA Environmental Department. Appendix 24 and 25 must be completed and submitted to the appropriate agencies (Federal On-Scene Coordinator) within 24 hours of initiating hazing activities.

At the start of spring break-up (for purposes of this document, when surface water is present in the area), BPXA will consult with US Fish and Wildlife Service (Catherine Berg - (907) 271-1630) to assess site conditions, species presence, and options for deterrence actions. At that time, BPXA will also consult with USFWS (Catherine Berg) regarding the potential for impact to endangered species (spectacled eiders).

All permit requirements are incorporated into this plan by reference. This permit requires completion (within 30 days of the cessation of spill cleanup events) and year end reporting.

WILDLIFE INTERACTION + DETERRENCE PLAN
Unified Command Signatures

[Signature] 3/15/06

Martha Falk NSB/WOSC 3-15-06

[Signature], EPA 3/15/06

J. Z. Spittle 3/15/06

Weather Report

Incident: Response - GC2 Oil Transit Line Release	Prepared By: Section, Planning at 3/17/2006 06:51
Period: Period 13 IAP (3/17/2006 19:00 - 3/20/2006 19:00)	Version Name: 03/17/2006 0700

Present Conditions

Wind Speed: 20.8 mph	Wave Height:
Wind Direction From The: East	Wave Direction:
Air Temperature: -10.9 Fahrenheit	Swell Height:
Barometric Pressure: 30.46	Swell Interval:
Humidity: 80%	Current Speed:
Visibility: .3 miles	Current Direction Toward:
Ceiling:	Water Temperature:
Next High Tide (Time):	Next Low Tide (Time):
Next High Tide (Height):	Next Low Tide (Height):
Sunrise: 07:06	Sunset: 19:01

Notes: Wind Chill -54.9 Fahrenheit
WIND CHILL ADVISORY CANCELLED
Today...Mostly sunny. Highs zero to 10 below zero. East winds 20 to 25 mph. Local blowing snow. Wind chill to 45 below increasing to 35 below in the afternoon.
Tonight...Mostly clear. Lows around 20 below. East winds 20 to 25 mph.

24 Hour Forecast

Sunrise: 07:01	Sunset: 19:05
High Tide (Time):	High Tide (Time):
High Tide (Height):	High Tide (Height):
Low Tide (Time):	Low Tide (Time):
Low Tide (Height):	Low Tide (Height):

Forecast: Saturday...Mostly sunny. Highs around 10 below. East winds around 20 mph.
Saturday Night...Partly cloudy. Lows 15 below to 20 below zero. East winds 20 to 25 mph.

48 Hour Forecast

Sunrise: 06:57	Sunset: 19:09
High Tide (Time):	High Tide (Time):
High Tide (Height):	High Tide (Height):
Low Tide (Time):	Low Tide (Time):
Low Tide (Height):	Low Tide (Height):

Forecast: Sunday...Partly cloudy. Blowing snow. Highs around 5 below. East winds 25 to 30 mph.
Sunday Night...Partly cloudy. Blowing snow. Lows near 10 below.
Monday...Mostly cloudy with a chance of snow. Highs near 5 above.
Monday Night...Mostly cloudy with a chance of snow. Lows near 10 below.
Tuesday...Mostly cloudy. Highs near zero.
Tuesday Night...Mostly cloudy. Lows near 15 below.
Wednesday...Mostly cloudy. Highs near 5 below.
Wednesday Night...Mostly cloudy with a chance of snow. Lows near 10 below.
Thursday...Mostly cloudy with a chance of snow. Highs near zero.