Table 4-31
RFI Areas of Interest
Bailey Point

Location	Description	Issue(s)	Cause(s)	Fate
Soil				
Industrial/Radiological Restricted Area	Areas of soil fill during construction	Low level pesticides (dieldrin) in soils	Construction period backfill from off-site sources	Strongly partitioned to soil; very slow degradation
Industrial Area	Soil beneath sumps and specific sources within former Turbine Hall	Areas of petroleum-contaminated soils and PAHs	Specific areas of petroleum product usage during operation	Strongly partitioned to soil; slow degradation
Warehouse 2/3	Soils on southwest side of warehouse	Solvents and PCBs in soils	Spilling of paints and solvents onto soils during operation	Plans being made for source removal
Warehouse 2/3	Soils on northwest side of warehouse	PCBs, lead and PAHs in shallow soils	Surface disposal of paint blasting grit	Strongly partitioned to soil; slow degradation
Construction Transformer (X5)	Soils in area surrounding transformer pad	EPH and PCBs	Operational leaks of transformer fluid	Plans being made for source removal
Former Truck Maintenance Garage	Soils beneath and near former garage	Areas of petroleum-contamination	Probable releases from construction-era maintenance garage	Plans being made for further characterization
345 kV Transmission Line Area	Area of construction debris	EPH and PAHs in subsurface soils	Construction period disposal	Strongly partitioned to soil; slow degradation
Bailey Farmhouse	Soils beneath fuel oil tank in basement	Area of petroleum-contamination beneath fuel oil tank	Operation of fuel tank	Source material removed July 2003
Bailey Farmhouse	Soils in leachfield west of access road	EPH and detected PCBs	Operation of leachfield	Strongly partitioned to soil; slow degradation
Parking Lot C	Along access road on eastern edge of parking lot in the area of the former Gatehouse	EPH and PAHs in shallow soils	Gasoline leak from a vehicle waiting at the Gatehouse	Strongly partitioned to soil; slow degradation
Groundwater				
Industrial/Radiological Restricted Area	Groundwater in IA/RA	Sodium and manganese exceedences of MEGs	Saltwater intrusion in deep wells; operational dosing with seawater due to pipe leaks and	Groundwater discharge in nearshore area at south end Bailey Point, concentrations

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Location	Description	Issue(s)	Cause(s)	Fate
			stormdrain backup; winter deicing; sodium chromate leaks	decreasing with time due to source removal, except deep wells with saltwater intrusion
RA/IA	Groundwater in RA/IA	DRO exceedences of MEGs	Several DRO/EPH sources (i.e., PAB alleyway, MW-401B area, main transformer fire; removed USTs, and other non-point sources)	Groundwater discharge in nearshore area at south end Bailey Point, concentrations decreasing with time due to source removal
Warehouse 2/3	Groundwater east and south of WH 2/3	TCA and related chlorinated daughter products exceed MEGs	Emptying drums containing residual TCA	Slow degradation of daughter products and southward migration of plume to nearshore discharge near Outfall 005 and 006
Warehouse 2/3	Groundwater on west side of warehouse	Ethylbenzene, vinyl chloride and metals exceed MEGs	Spilling of paints and solvents onto soils during operation	Groundwater discharge in nearshore areas to west in Bailey Cove; concentrations decreasing after soil source removal
North of ISFSI and 345 kV Switchyard	Groundwater beneath dredge spoil disposal area	Metals in groundwater including sodium, iron, and manganese, exceed MEGs and PRGs	Sediments with saltwater pore water leaching sodium chloride deposited on top of former marsh deposits	Sodium decreasing with time through exchange processes and dilution; metals released through anaerobic reduction unlikely to decrease; discharge to nearshore areas of Bailey Cove but also some transport to the south of Na and As through deep bedrock transport
North end of Bailey Point	Groundwater in most of area north of Knoll	DRO exceeds MEGs in groundwater in most wells	Kerosene spill, concrete maintenance garage source, ops cleaning basin, several remediated soil areas, and miscellaneous sources in	Identifiable soil sources have been or will be remediated; discharge to nearshore areas of Bailey Cove but also some transport to the south likely

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Location	Description	Issue(s)	Cause(s)	Fate
			construction debris dump	in deep bedrock transport
Various Areas of site	Groundwater in most of area surrounding ISFSI; MW-308; MW-405; MW-401B	Molybdenum exceeds MEG	Possible source in petroleum lubricant spills; possible natural source from rock mineral	Wide distribution of groundwater discharge in nearshore areas; ISFSI area groundwater may move south in deep rock flow; concentrations in MW-405 and -401B may decrease after source removal; concentrations from natural causes not likely to decrease
Sediment				
Outfall 009	Industrial area outfall south of former Circulating Water Pumphouse that received stormwater runoff from the south and east sides of the former Turbine Hall	PAHs in shallow sediments	Various petroleum spills	Sediment removed in fall 2003