



Legend

- Chlorinated Solvents Plume - Concentrations Exceed MCLs TCE = 5.0 µg/L PCE = 5.0 µg/L
- EDB Plume - Concentrations Exceed MMCL = 0.02 µg/L
- Perchlorate Plume - Concentrations Exceed MMCL = 2.0 µg/L
- RDX Plume - Concentrations Exceed EPA 10⁶ Risk-Based Level = 0.6 µg/L (IAGWSP); = 0.7 µg/L (IRP)
- Fuel Plume - The Following Contaminants Exceed Associated MCP GW-1 or RBC Groundwater Standards: C5-C8 aliphatic hydrocarbons, GW-1 = 300 µg/L C9-C10 aromatic hydrocarbons, GW-1 = 200 µg/L C9-C12 aliphatic hydrocarbons, GW-1 = 700 µg/L C11-C22 aromatic hydrocarbons, GW-1 = 200 µg/L 1,2,4-TMB, RSL = 56 µg/L 1,3,5-TMB, RSL = 60 µg/L 2-methylnaphthalene, GW-1 = 10 µg/L
- PFAS6 Plume - Concentrations Exceed MassDEP PFAS6 MMCL = 0.02 µg/L (Dashed Where Inferred)
- Plumes with Remedy in Place
- IRP PFAS Source Area
- MMRP Site - Active
- IRP Source Area - Active
- Extraction Well
- Extraction Well (Off)
- Reinjection Well
- Reinjection Well (Off)
- Outflow Bubbler
- Treatment Facility
- Municipal Water Supply Well
- Town Boundary
- Infiltration Trench/Gallery (On)
- Infiltration Trench/Gallery (Off)
- IRP Land Use Control (LUC) Boundary
- IAGWSP Land Use Control (LUC) Boundary

Treatment System Pipeline:

- Influent
- Effluent

Scale: 1 inch = 1 mile
0 0.5 1 Miles

The areas of contamination show the combined contaminants of concern within each plume.

Contaminant of Concern (COC)	Type of Contaminant	Risk-Based Level
TCE = trichloroethene	solvent	MCL = 5 µg/L
PCE = perchloroethene	solvent	MCL = 5 µg/L
CCl ₄ = carbon tetrachloride	solvent	MCL = 5 µg/L
EDB = ethylene dibromide	fuel-related compound	MMCL = 0.02 µg/L
benzene	fuel-related compound	MCL = 5 µg/L
VC = vinyl chloride	solvent	MCL = 2 µg/L
1,1,2,2-TeCa = 1,1,2,2-tetrachloroethane	solvent	GW-1 = 2 µg/L
1,4-DCB = 1,4-dichlorobenzene	solvent	MMCL = 5 µg/L
Mn = manganese	metal	EPA Health Advisory = 300 µg/L
thallium	metal	MCL = 2 µg/L
lead	metal	15 µg/L (treatment technique action level for water distribution systems)
toluene	fuel-related compound	MCL = 1,000 µg/L
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine	explosive	HA = 2 µg/L GW-1 = 1 µg/L 10 ⁶ = 0.6 µg/L (IAGWSP); = 0.7 µg/L (IRP)
perchlorate	oxidizer	HA = 15 µg/L MMCL = 2 µg/L
C5-C8 aliphatic hydrocarbons	fuel-related compound	GW-1 = 300 µg/L
C9-C10 aromatic hydrocarbons	fuel-related compound	GW-1 = 200 µg/L
C9-C12 aliphatic hydrocarbons	fuel-related compound	GW-1 = 700 µg/L
C11-C22 aromatic hydrocarbons	fuel-related compound	GW-1 = 200 µg/L
1,2,4-TMB	fuel-related compound	RSL = 56 µg/L
1,3,5-TMB	fuel-related compound	RSL = 60 µg/L
2-methylnaphthalene	fuel-related compound	GW-1 = 10 µg/L
1,4-dioxane	solvent	RG = 0.46 µg/L

Joint Base Cape Cod Groundwater Plume Map, and IRP and IAGWSP LUC Areas

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Note: MCL – Maximum Contaminant Level
MMCL – Massachusetts Maximum Contaminant Level
HA – Federal Lifetime Health Advisory
PFAS – Per- and Polyfluoroalkyl substances
GW-1 – State default cleanup value to be used in lieu of site-specific risk-based level
10⁶ – EPA level resulting in an excess cancer risk of one in a million
RG – Site Specific Risk Based Remediation Goal
RSL – Regional Screening Level