








# Appendix H Map Legend and Topographic Map Symbology

See Table 2.2 for examples of PSOC subtypes. Topographic map symbology included in this appendix was modified for clarity after the USGS publication: "Topographic Map Symbols". Information on how to interpret a topographic map may be found at <http://mac.usgs.gov/mac/isb/pubs/booklets/symbols/reading.html>.

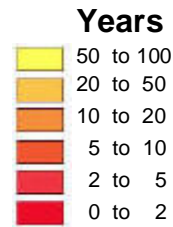
## Map Legend:

-  Ground Water Well
-  Surface Water Intake































## Surface Water

-  Watershed Boundary
-  Truncated Watershed Boundary
-  Area of Primary Influence (API)

## Ground Water Capture Zone Travel Times



## PSOC Type

- |   |   |   |                                     |
|---|---|---|-------------------------------------|
|    | Golf Course                                   |    | Petroleum Storage Tank              |
|   | Radiochemical Site                            |   | Military Armory                     |
|  | Grain Elevator                                |  | Photo Process Business              |
|  | Tire Sales, Repair Business                   |  | Sugar Refining                      |
|  | Nuclear Power Plant                           |  | Plastic Mfg., Sales                 |
|  | Inorganic Chemical Industry                   |  | Pulp or Paper Mill                  |
|  | New or Used Oil Site                          |  | Auto Parts (New or Used)            |
|  | Organic Chemical Industry                     |  | Auto Repair, Sales, Salvage         |
|  | Metal Plating Industry                        |  | Cotton Gin                          |
|  | Wood Preserving                               |  | Dry Cleaner                         |
|  | Paint Shop                                    |  | Fertilizer Mfg., Sales, Application |
|  | Battery Mfg., Sales                           |  | Cemetery                            |
|  | Pesticide Mfg., Sales, Application            |  | Chemical Storage                    |
|  | Boat Storage                                  |  | Drum, Small Containers, Bags        |
|  | Pesticide, Fertilizer Mfg., Sales Application |  | Chemical Mixing Site                |

	Oil/Gas Production Tanks		Muni. Wastewater Outfall		Superfund - TCEQ
	Petroleum Chemical Industry		Treatment Plant		Confined Animal Feeding Operation
	Fireworks (Mfg/Retail)		Agri. Wastewater Outfall		Corrective Action - TCEQ
	Transformer		Priv. Wastewater Outfall		Waste Transfer Station
	Class I Injection Well		Cesspool		Domestic Waste or Burn Pile
	Class II Injection Well		Wastewater		Voluntary Cleanup - TCEQ
	Class III Inj. Well (Brine)		Holding Pond		Industrial Hazardous Waste TSD - TCEQ
	Class III Inj. Well (Sodium Sulphate)		Holding Tank		Waste Registration - TCEQ
	Class III Inj. Well (Sulfur)		Ind. Wastewater Outfall		Municipal Solid Waste - Abandoned - TCEQ
	Class III Inj. Well (Uranium)		Land Application Sludge		Oilfield Sludge Disposal
	Class V Injection Well		Lift Station		Municipal Solid Waste - Active - TCEQ
	Untreated Sewage		Pipeline		Perchlorate Site
	Agricultural Drainage		Airport		
	Cesspool		Boat Ramp		
	Storm Drainage		Heliport		
	Septic Undifferentiated		Landing Strip		
	Septic Drainfield		Marina		
	Auto Repair Floor Drain		Military Air Base		
	Gun Range		Cattle Dipping Vat		
	Gun Range (Public/Private)		Livestock/Animal Pens		
	Gun Range (Military)		Site Discovery - TCEQ		
	Water Well		Waste		
	Mined Land: Active/Abandoned		Groundwater Contamination		
	Natural Resource Production		Salt Water Disposal Pit		
	Oil/Gas Well - Plugged				
	Oil/Gas Well - Production				
	Oil/Gas Well - Underground Storage				
	Septic System				









<b>Pipelines</b>	
	Anhydrous Ammonia
	Carbon Dioxide
	Crude Oil
	Empty
	Hydrogen Gas
	Highly Volatile Liquids
	Liquid Petroleum Gas
	Natural Gas
	Natural Gas Liquids
	Product - Gasoline, Diesel, Jet Fuel

# Topographic Map Symbolology:





## CONTROL DATA AND MONUMENTS

Aerial photograph roll and frame number\* 3-20





### Horizontal control

Third order or better, permanent mark	Neace  Neace 
With third order or better elevation	BM  45.1  P.K. & BM 45.1
Checked spot elevation	 79.5
Coincident with section corner	Cactus  Cactus 
Unmonumented*	

### Vertical control

Third order or better, with tablet	BM  16.3
Third order or better, recoverable mark	 120.0
Bench mark at found section corner	BM  18.6
Spot elevation	 5.3




### Boundary monument

With tablet	BM  21.6  71
Without tablet	 171.3
With number and elevation	67  301.1






U.S. mineral or location monument 

## CONTOURS






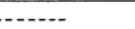

### Topographic

Intermediate	
Index	
Supplementary	
Depression	
Cut; fill	

### Bathymetric







Intermediate	
Index	
Primary	
Index Primary	
Supplementary	

## BOUNDARIES





National	
State or territorial	
County or equivalent	
Civil township or equivalent	
Incorporated city or equivalent	
Park, reservation, or monument	
Small park	

## LAND SURVEY SYSTEMS


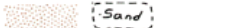


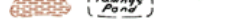
### U.S. Public Land Survey System

Township or range line	
Location doubtful	
Section line	
Location doubtful	
Found section corner; found closing corner	
Witness corner; meander corner	







### Other land surveys

Township or range line	
Section line	
Land grant or mining claim; monument	
Fence line	






## SURFACE FEATURES

Levee	
Sand or mud area, dunes, or shifting sand	
Intricate surface area	
Gravel beach or glacial moraine	
Tailings pond	

## MINES AND CAVES



Quarry or open pit mine	
Gravel, sand, clay, or borrow pit	
Mine tunnel or cave entrance	
Prospect; mine shaft	
Mine dump	
Tailings	

## VEGETATION



Woods	
Scrub	
Orchard	
Vineyard	
Mangrove	

## MARINE SHORELINE

### Topographic maps

Approximate mean high water	
Indefinite or unsurveyed	

### Topographic-bathymetric maps

Mean high water	
Apparent (edge of vegetation)	

COASTAL FEATURES	
Foreshore flat	
Rock or coral reef	
Rock bare or awash	
Group of rocks bare or awash	
Exposed wreck	
Depth curve; sounding	
Breakwater, pier, jetty, or wharf	
Seawall	
BATHYMETRIC FEATURES	
Area exposed at mean low tide; sounding datum	
Channel	
Offshore oil or gas; well; platform	
Sunken rock	
RIVERS, LAKES, AND CANALS	
Intermittent stream	
Intermittent river	
Disappearing stream	
Perennial stream	
Perennial river	
Small falls; small rapids	
Large falls; large rapids	
Masonry dam	
Dam with lock	
Dam carrying road	
Perennial lake; Intermittent lake or pond	
Dry lake	
Narrow wash	
Wide wash	
Canal, flume, or aqueduct with lock	
Elevated aqueduct, flume, or conduit	
Aqueduct tunnel	
Well or spring; spring or seep	
SUBMERGED AREAS AND BOGS	
Marsh or swamp	
Submerged marsh or swamp	
Wooded marsh or swamp	
Submerged wooded marsh or swamp	
Rice field	
Land subject to inundation	

BUILDINGS AND RELATED FEATURES	
Building	
School; church	
Built-up Area	
Racetrack	
Airport	
Landing strip	
Well (other than water); windmill	
Tanks	
Covered reservoir	
Gaging station	
Landmark object (feature as labeled)	
Campground; picnic area	
Cemetery: small; large	
ROADS AND RELATED FEATURES	
Roads on Provisional edition maps are not classified as primary, secondary, or light duty. They are all symbolized as light duty roads.	
Primary highway	
Secondary highway	
Light duty road	
Unimproved road	
Trail	
Dual highway	
Dual highway with median strip	
Road under construction	
Underpass; overpass	
Bridge	
Drawbridge	
Tunnel	
RAILROADS AND RELATED FEATURES	
Standard gauge single track; station	
Standard gauge multiple track	
Abandoned	
Under construction	
Narrow gauge single track	
Narrow gauge multiple track	
Railroad in street	
Juxtaposition	
Roundhouse and turntable	
TRANSMISSION LINES AND PIPELINES	
Power transmission line: pole; tower	
Telephone line	
Aboveground oil or gas pipeline	
Underground oil or gas pipeline	

Symbols shown in purple revised by the USGS from aerial photographs.