

WATER RIGHTS ENGINEERING

Augmentation and Substitute Water Supply Plans

Gravel Pits: Asphalt Specialties Company Inc. - Speer Pit

Substitute Water Supply Plan's ("SWSP's") for the gravel mining industry have become an increasingly larger part of our work. One such operation is that of Asphalt Specialties Company, Inc. ("ASCI") Speer Mining Resource near Brighton. Martin and Wood provided the engineering for determining the timing, volume,

and location of ASCI's water consumption and developed an SWSP for the mine's temporary period of operation using reusable treated effluent from an upstream wastewater treatment plant to replace the pit's depletions. The State Engineer approved the plan.

Surface Water: Town of Empire

The Town of Empire has historically replaced its out-of-priority depletions from its use of alluvial wells with leased Henderson Mine water. Due to the recent construction of the City of Golden's nearby Guanella Reservoir, the Town was able to come to an agreement with Golden for 6.3 acre-feet of augmentation water from the

reservoir and an additional 10 acre-feet of storage space for Empire's use. Martin and Wood personnel estimated future consumptive use for the Town's ultimate buildout and conducted the engineering required for Empire's pending augmentation plan, utilizing the newly acquired reservoir water as an additional augmentation source.

Ground Water: City of Englewood - Centennial Lake

Centennial Lake consists of a reclaimed gravel pit located on the west side of the

South Platte River along Union Avenue. With the sponsorship of former Colorado Rockies catcher, Brent Maynes, and many others, the City of Englewood has constructed a park and ball field with Centennial Lake as its focal piece.



Englewood's Centennial Lake and Park

Because Centennial Lake lies so closely to the South Platte River, the timing of its depletions from evaporation was not an issue. The City of Englewood augments depletions from Centennial Lake by leaving portions of its changed interests in the Nevada Ditch, Brown Ditch, or McBroom Ditch in the river or by releasing these and other waters from storage in the City's McLellan Reservoir.

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