Table 3

Dates, Times, and Weather Conditions for Focused Yellow-billed Cuckoo Surveys

June 11	0600-1100	T(a) = 56 ► 66 F; 1-3 mph winds; 100% □ 90% cloud cover
June 26	0600-1100	T(a) = 59 ▶ 85 F; 1-3 mph winds; clear skies
		T(a) = 63 ▶ 76 F; 0-2 ▶ 1-3 mph winds; 100% overcast ► clear but
July 8	0600-1130	hazy
July 15	0530-1100	T(a) = 62 ► 84 F; 0-2 ► 1-3 mph winds; 100% overcast ► clear

Winds measured with Dwyer hand held wind meter 6 ft. above ground

T(a) is ambient temperature measured with Spirit Pocket Thermometer (REI) 4 ft. above ground in shade of body

Surveys for yellow-billed cuckoo were conducted by walking slowly and methodically within and along the riparian habitat. Taped vocalizations of the yellow-billed cuckoo were played approximately every 50 feet in an attempt to elicit a response from potentially present individuals. The tape was played for roughly 15 seconds, stopped for one or two minutes to listen for a response, and then played again before moving to the next spot.

Survey Results

Southwestern Willow Flycatcher

No nesting southwestern willow flycatchers were reported in the vicinity of the project site in the California Natural Diversity Data Base (CDFG 2003). Only a few southwestern willow flycatcher territories have been identified in Orange County in recent years, including a pair in Canada Gobernadora, a singing male at Laguna Lakes, and one individual at the San Juan River (Daniels, pers. comm. 2003). In addition, there are approximately three to four nesting pairs annually at Prado Basin approximately ten miles east (Leatherman, pers. comm. 2003).

One willow flycatcher was observed in the Carbon Canyon basin during the first survey on May 23, 2003. However, this bird was not observed within the 500-foot buffer area, and was not observed on subsequent surveys.

Migrant willow flycatchers are expected to occur in the area in small numbers during spring and in higher numbers during fall migration (Garrett and Dunn 1981). However, migrant flycatchers in the project region are almost always the more common northern subspecies (*E.t. brewsteri* and *E.t. adastus*), and not the federally Endangered southwestern subspecies (*E.t. extimus*) (Unitt 1987). The first two survey periods (May 15-31 and June 1-21) are conducted during a time when migrant willow flycatchers of all three California subspecies might occur in the project area. Unless nesting behavior is observed during these first two surveys, it is the final survey period (June 22 to July 17) in which detected birds are likely either breeding birds or nonbreeding resident floaters (non-paired birds). Migrant willow flycatchers are typically no longer moving through the southwest during this third survey period. Because the flycatcher observed in the study area was found on the first survey and not subsequent surveys, it is recognized as a migrant.

Least Bell's Vireo

No occurrences for least Bell's vireo were recorded in the CNDDB (CDFG 2003); however, least Bell's vireos were observed throughout the basin within Carbon Canyon Regional Park (i.e., the riparian area upstream of the dam). The distribution of least Bell's vireos within the basin and in the study area was not static through the breeding season. One singing male was observed within the 500-foot buffer area on the initial survey on April 11. Then, despite the documentation of six least Bell's vireo territories in the basin, none were observed within the study area until the last survey on July 8, when a pair of vireos was observed foraging within the study area near the bore location behind the dam. On July 15, during the final survey for southwestern willow flycatcher and yellow-billed cuckoo, another singing vireo was observed adjacent to the pipeline route in the study area. The locations of the observations within the study area are shown on Exhibit 3.

Portions of the Carbon Canyon basin are dominated by black willow riparian forest and portions are dominated by giant reed, an invasive non-native species. The vireo territories tended to be associated with the higher quality habitat represented by the black willow forest, most of which is located on the east side of the basin. The study area, which is located on the west side of the basin, is along an area where black willow forest and giant reed are intermixed, and therefore represents suitable but lower quality habitat for the vireo than that available elsewhere in the basin. The observations of singing males and a pair within the study area lead to the conclusion that the habitat is occupied for foraging, even though pairs did not apparently successfully within the study area. As the population of vireos in southern California continues to increase (USFWS 1998), it is likely that the habitat within the study area will be occupied by nesting pairs.

Yellow-Billed Cuckoo

No yellow-billed cuckoos were observed within the study area during the focused surveys and no nesting yellow-billed cuckoos were reported in the vicinity by the California Natural Diversity Data Base (CDFG 2003). Reports of the yellow-billed cuckoo nesting in southern California are scattered and include records from the Santa Ynez River in Santa Barbara, Kern River in Kern County, and the Owens Valley (Daniels, pers. comm. 2003). Yellow-billed cuckoos have not been observed nesting in Orange County since the 1970's (Garrett and Dunn 1981). In the past three decades, the nearest known possible nesting occurrence of the yellow-billed cuckoo was at the Prado Basin, approximately ten miles to the east (Leatherman, pers. comm. 2003).

Conclusions

The southwestern willow flycatcher and yellow-billed cuckoo are considered absent as breeders from the study area at this time. At least six least Bell's vireo territories occur in the basin within Carbon Canyon Regional Park (i.e., the riparian area upstream of the dam), but only three observations of vireos were made within the study area. The habitat within the study area (i.e., pipeline route and 500-foot buffer area) is therefore considered occupied, even though nesting within the survey area was not documented.

Numerous male and female brown-headed cowbirds were observed during each of the surveys. Cowbird parasitism on several least Bell's vireo (*Vireo pusillus bellii*) nests within the basin (outside of the study area) was observed.

BonTerra Consulting has appreciated the opportunity to assist on this project. If you have any comments or questions, please call Amber Oneal at (714) 444-9199.

Sincerely,

BONTERRA CONSULTING

ann M. Johnstow/JMS

Ann M. Johnston Principal, Biological Services

Enclosures: Exhibits 1, 2, and 3 Attachment A

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cc: Alan Ashimine, RBF Consulting Brian Leatherman, White-Leatherman BioServices

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Amber S. Oneal Project Manager/Ecologist

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WILDLIFE OBSERVED ON THE CARBON CANYON PROJECT SITE

The following is a list of species observed or detected on the project site. Non-native species are indicated by an asterisk. Species on CDFG's Special Animals list are indicated by two asterisks. Other species may have been overlooked or inactive/absent because of the season (amphibians are active during rains, reptiles during summer, some birds (and bats) migrate out of the area for summer or winter, some mammals hibemate etc.). Taxonomy and nomenclature generally follow Stebbins (2003) for amphibians and reptiles, AOU (1998) for birds, and Jones et al. (1992) for mammals.

SCIENTIFIC NAME

COMMON NAME

AMPHIBIA

Bufonidae Bufonidae Bufo boreas halophilus Hyliae Hyla regilla REPTILIA Phrynosomatidae Sceloporus occidentalis biseriatus Uta stansburiana Anguidae Elgaria multicarinata webbii Colubridae Pituophis catenifer Viperidae Crotalus viridis

AVES

Ardeidae ** Ardea herodias ** Ardea alba ** Egretta thula ** Nycticorax nycticorax Cathartidae Cathartes aura Anatidae Anas platyrhynchos Accipitridae ** Accipiter cooperii Buteo lineatus Buteo jamaicensis Falconidae Falco sparverius Odontophoridae Callipepla californica Charadriidae Charadrius vociferus Columbidae Zenaida macroura Columbina passerina Strigidae Bubo virginianus Apodidae Aeronautes saxatalis

True toads Western toad Treefrogs and allies Pacfic treefrog REPTILES Phrynosomatids Western fence lizard Side-blotched lizard Alligator lizards Southern alligator lizard Colubrids Gopher snake Rattlesnakes Western rattlesnake

BIRDS Herons and Egrets Great blue heron Great egret Snowy egret Black-crowned night-heron Vultures Turkey vulture Geese and ducks Mallard Raptors Cooper's hawk Red-shouldered hawk Red-tailed hawk Falcons American kestrel Quail California quail Plovers Killdeer Pidgeons and doves Mourning dove Common ground-dove Owls Great horned owl Swifts White-throated swift

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WILDLIFE OBSERVED ON THE CARBON CANYON PROJECT SITE

SCIENTIFIC NAME

Trochilidae

COMMON NAME

Archilochus alexandri Calypte anna Calypte costae Selasphorus sasin Picidae Melanerpes formicivorus Picoides nuttallii Picoides pubescens Tyrannidae Contopus sordidulus ** Empidonax traillii Empidonax difficilis Sayomis nigricans Sayomis saya Mylarchus cinerascens Tyrannus vociferans Tyrannus verticalis Vireonidae * Vireo bellii pusillus Vireo plumbeus Vireo cassinii Vireo huttoni Vireo gilvus Corvidae Aphelocoma californica Corvus brachyrhynchos Corvus corax Hirundinidae Tachycineta bicolor Stelgidopteryx serripennis Petrochelidon pyrrhonota Hirundo rustica Aegithalidae Psaltriparus minimus Troglodytidae Thryomanes bewickii Troglodytes aedon Turdidae Sialia mexicana Catharus ustulatus Catharus guttatus Turdus migratorius Timaliidae Chamaea fasciata Mimidae Mimus polyglottis Toxostoma redivivum

Hummingbirds Black-chinned hummingbird Anna's hummingbird Costa's hummingbird Allen's hummingbird Woodpeckers Acorn woodpecker Nuttall's woodpecker Downy woodpecker Tyrant flycatchers Western wood-pewee Willow flycatcher Pacific-slope flycatcher Black phoebe Say's phoebe Ash-throated flycatcher Cassin's kingbird Western kingbird Vireos Least Bell's vireo Plumbeous vireo Cassin's vireo Hutton's vireo Warbling vireo Jays and crows Western scrub-jay American crow Common raven Swallows Tree swallow Northern rough-winged swallow Cliff swallow Barn swallow Bushtits Bushtit Wrens Bewick's wren House wren Bluebirds and thrushes Western bluebird Swainson's thrush Hermit thrush American robin Wrentits Wrentit Mockingbirds and thrashers Northern mockingbird California thrasher

A-2

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WILDLIFE OBSERVED ON THE CARBON CANYON PROJECT SITE

SCIENTIFIC NAME

COMMON NAME

Sturnidae * Sturnus vulgaris Bombycillidae Bombycilla cedrorum Parulidae Vermivora celata Vermivora ruficapilla ** Dendroica petechia Dendroica coronata Dendroica nigrescens Dendroica townsendi ** Dendroica occidentalis Oporornis tolmiei Geothlypis trichas Wilsonia pusilla ** Icteria virens Thraupidae Piranga ludoviciana Emberizidae Pipilo maculatus Piplio crissalis Melospiza melodia Zonotrichia leucophrys Zonotrichia atricapilla Cardinalidae Pheucticus melanocephalus Guiraca caerulea **Icteridae** Quiscalus mexicanus Molothrus ater Icterus cucullatus lcterus bullockii Fringillidae Carpodacus mexicanus Carduelis psaltria Carduelis tristis Estrildidae Lonchura punctulata MAMMALIA Talpidae Scapanus latimanus

Leporidae Sylvilagus audubonii Sciuridae Spermophilus beecheyi Sciurus griseus Geomyidae Thomomys bottae Starlings European starling Waxwings Cedar waxwing Wood warblers Orange-crowned warbler Nashville Warbler Yellow warbler Yellow-rumped warbler Black-throated gray warbler Townsend's warbler Hermit warbler MacGillivray's warbler Common yellowthroat Wilson's warbler Yellow-breasted chat **Tanagers** Western tanager Towhees and sparrows Spotted towhee California towhee Song sparrow White-crowned sparrow Golden-crowned sparrow Grosbeaks and buntings Black-headed grosbeak Blue grosbeak Blackbirds and orioles Great-tailed grackle Brown-headed cowbird Hooded oriole Bullock's oriole Finches House finch Lesser goldfinch American goldfinch Estrildid finches Nutmeg mannikin MAMMALS Moles Broad-footed mole

Hares and rabbits Desert cottontail Squirrels California ground squirrel Western gray squirrel Pocket gophers Botta's pocket gopher (burrows)

A-3

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WILDLIFE OBSERVED ON THE CARBON CANYON PROJECT SITE

SCIENTIFIC NAME

COMMON NAME

Canidae * Canis familiarus Canis latrans Mustelidae Mustella frenata Equidea * Equus caballus

Dogs/wolves/foxes Domestic dog Coyote (scat, tracks) Weasels and allies Long-tailed weasel Horses and allies Domestic horse

A-4

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August 27, 2003

RBF CONSULTING

Mr. Daniel Marquez Southern California Field Office U.S. Fish & Wildlife Service

6010 Hidden Valley Road

VIA FACSIMILE AND MAIL (760) 431-9624

Carlsbad, CA 92009 Subject: Results of Focused Surveys for the Coastal California Gnatcatcher for the Carbon Canyon Pipeline Project Site, Orange County, Californa

Dear Mr. Marquez:

This letter reports the results of focused surveys to evaluate the presence or absence of the coastal California gnatcatcher (*Polioptila californica californica*) on the Carbon Canyon pipeline project site (hereafter referred to as the project site).

Project Location and Description

The project site and its associated study area are located in Carbon Canyon Regional Park near the cities of Brea and Yorba Linda in unincorporated Orange County (Exhibit 1). The project site is located in Orange County along the western end of Carbon Canyon Regional Park and through private property between Carbon Canyon Road (Highway 142) and Rose Drive, just east of Valencia Avenue (Exhibit 2). The northern third of the pipeline route is in the basin behind Carbon Canyon Dam, and the southern third is primarily through ruderal habitat and agricultural lands. The middle third of the pipeline would be bored under the northeastern corner of Carbon Canyon Dam.

Elevations on the project site range from approximately 420 to 525 feet above mean sea level (msl). Land uses in the vicinity include agriculture, oil drilling, residential development, water retention (Carbon Canyon Dam), and open space within Carbon Canyon Park.

Native vegetation types include coastal sage scrub, chaparral, and willow riparian forest. Although many of the native areas have scattered ornamentals, they are still considered high quality habitats. Non-native vegetation types include annual grassland, ornamental, irrigated row and field crops, and other disturbed and developed areas.

The coastal California gnatcatcher breeds primarily in coastal sage scrub. The extent of coastal sage scrub within the pipeline route is limited to two or three small patches that occur within otherwise disturbed or non-native habitats. These small patches are not large enough to support a pair of coastal California gnatcatchers. However, the patches of coastal sage scrub within the pipeline route and immediate vicinity may be of sufficient size to collectively support a pair of gnatcatchersCoastal sage scrub in the study area is dominated by California sagebrush (*Arternisia california*). Other commonly occurring species include California buckwheat (*Eriogonum fasciculatum*),

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coastal golden bush (*Isocoma menziesii*) and coastal prickly pear cactus (*Opuntia littoralis*). Mexican elderberry (*Sambucus mexicana*) is scattered throughout the upland areas, including within the scrub habitat. Non-native grasses and herbs dominate the understory.

Background

The coastal California gnatcatcher was listed by the U.S. Fish and Wildlife Service (USFWS) as a Threatened species in 1993 (USFWS 1993). Historically it occurred in California from the Santa Clara River valley and northern San Fernando Valley south through the coastal foothills of San Diego County (Garrett and Dunn 1981). Habitat loss and fragmentation from expanding development and agriculture has been a major factor in the decline of this species in southern California (Atwood 1993). On April 24, 2003, the USFWS proposed revised critical habitat for the coastal California gnatcatcher (USFWS 2003).

The coastal California gnatcatcher is a resident (non-migratory) songbird that nests and forages in moderately dense stands of coastal sage scrub occurring on arid hillsides, mesas, and washes. Coastal sage scrub vegetation types dominated by California sagebrush, California buckwheat, and white sage (*Salvia apiana*) seem to be preferred by this species, but shrub composition in occupied areas across the species' range varies, as does shrub community structure (height, density, etc.). For example, coastal California gnatcatcher populations in inland areas may occur in more open scrub habitats, inhabit scrub communities dominated by black sage (*Salvia mellifera*), occur at higher elevations (up to 2,640 feet), and tend to have larger home ranges than populations in coastal areas where denser scrub habitats are used, scrub habitats dominated by black sage are largely avoided, lower elevations are preferred (up to 1,485 feet), and home range sizes tend to be smaller (Atwood and Bontrager 2001).

Survey Methods

Prior to conducting the focused surveys, a search was conducted of the most recent version of the California Natural Diversity Data Base (CDFG 2003, Yorba Linda USGS 7.5 minute quadrangle), and other relevant available documents to determine if, and to what extent, the coastal California gnatcatcher occurs on the project site or immediate vicinity. The study area for the proposed project was the pipeline route with a 100-foot buffer area around the pipeline route, as determined by the project applicant in consultation with the adjacent property owner (Exhibit 3).

All focused surveys were conducted by Brian Leatherman (USFWS permit # TE 827493-3; CDFG MOU), a wildlife biologist with over 10 years field experience in southern California. Sightings of the listed species were mapped in the field on a 1-inch = 100-feet aerial photograph of the study area. The focus of the surveys was on the detection and identification of the target species, but all wildlife incidentally observed or detected on the project site was documented. Identifications were made with the aid of 8 x 42 power Bosch & Lomb Elite binoculars. A list of the species observed during the surveys is included in Attachment A.

Surveys for the coastal California gnatcatcher followed the presence/absence protocol (USFWS 1997) for jurisdictions outside an approved or interim Natural Communities Conservation Program (NCCP) area. The protocol requires that six surveys be conducted at least seven days apart between March 15 and June 30. Surveys are to be conducted between dawn and 11:00 a.m. under suitable weather conditions. The protocol allows coverage of 80



acres of suitable habitat per survey day, or a rate of approximately 13 acres per hour. Surveys were conducted by walking slowly within and along the perimeter of coastal sage scrub stands while watching and listening for coastal California gnatcatcher activity. Taped vocalizations were used conservatively to solicit a response from any gnatcatchers potentially present. The frequency of taped playback use varied with site conditions including habitat patch size, topography, and ambient noise levels. Survey dates, times, and weather data for the coastal California gnatcatcher surveys are shown in Table 1.

TABLE 1 DATES, TIMES, AND WEATHER CONDITIONS FOR FOCUSED COASTAL CALIFORNIA GNATCATCHER SURVEYS

April 16	0630-1130	T(a) = 50 ► 67 F; 0-2 mph winds; 0% ► 5% cloud cover
April 28		T(a) = 51 ► 69 F; 0-2 mph winds; 0% ► 10% cloud cover
May 12	0630-1130	T(a) = 49 ► 67 F; 0-2 ► 1-3 mph winds; 90% ► 60% cloud cover
May 22	0700-1200	T(a) = 56 ► nr F; 1-3 mph winds; hazy but burning off ► clear skies
June 5	0630-1200	T(a) = 52 ► 68 F; 1-3 mph winds; 100% ► 100% cloud cover but thinning
June 12	0630-1200	T(a) = 58 ► 66 F; 0-2 ► 1-3 mph winds; 100% cloud cover

indicates a unidirectional change during survey period

* indicates a range of fluctuation during survey period

Winds measured with Dwyer hand held wind meter 6 ft. above ground

T(a) is ambient temperature measured with Spirit Pocket Thermometer (REI) 4 ft. above ground in shade of body

Survey Results

Four occurrences of the coastal California gnatcatcher were recorded in the CNDDB (CDFG 2003), and coastal California gnatcatchers are known from the immediate vicinity.

No coastal California gnatcatchers were observed in coastal sage scrub habitat in the study area. The coastal California gnatcatcher did not nest within the pipeline route and respective buffer area in Spring/Summer 2003.

At the end of Spring/Summer 2003, a family group of gnatcatchers was incidentally observed foraging approximately 1,500 feet southeast of the proposed pipeline (upstream of the dam). Although the gnatcatcher is absent from the pipeline and immediate vicinity in 2003, a preconstruction survey may be conducted to determine the location of any gnatcatchers within 500 feet of the proposed pipeline if construction would occur during the nesting season. If any gnatcatchers occur within the 500-foot buffer area, noise minimization measures may be

Numerous male and female brown-headed cowbirds (*Molothrus ater*) were observed during each of the surveys. Cowbird parasitism on several least Bell's vireo (*Vireo pusillus bellii*) nests within the basin (outside of the study area) was observed.

BonTerra Consulting has appreciated the opportunity to assist on this project. If you have any comments or questions, please call Amber Oneal at (714) 444-9199.

Sincerely,

BONTERRA CONSULTING

Ann M Johnston

Principal, Biological Services

Enclosures: Exhibits 1, 2, and 3 Attachment A

mon SONIA 2 Amber S. Oneal

Project Manager/Ecologist

Cc: Alan Ashimine, RBF Consulting Brian Leatherman, White-Leatherman BioServices

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WILDLIFE OBSERVED ON THE CARBON CANYON PROJECT SITE

The following is a list of species observed or detected on the project site. Non-native species are indicated by an asterisk. Species on CDFG's Special Animals list are indicated by two asterisks. Other species may have been overlooked or inactive/absent because of the season (amphibians are active during rains, reptiles during summer, some birds (and bats) migrate out of the area for summer or winter, some mammals hibernate etc.). Taxonomy and nomenclature generally follow Stebbins (2003) for amphibians and reptiles, AOU (1998) for birds, and Jones et al. (1992) for mammals.

SCIENTIFIC NAME

COMMON NAME

AMPHIBIA

Bufonidae Bufo boreas halophilus Hylidae Hyla regilla REPTILIA Phrynosomatidae Sceloporus occidentalis biseriatus Uta stansburiana Anguidae Elgaria multicarinata webbii Colubridae Pituophis catenifer Viperidae

Crotalus viridis

Ardeidae ** Ardea herodias ** Ardea alba ** Egretta thula ** Nycticorax nycticorax Cathartidae Cathartes aura Anatidae Anas platyrhynchos Accipitridae ** Accipiter cooperii Buteo lineatus Buteo jamaicensis Falconidae Falco sparverius Odontophoridae Callipepla californica Charadriidae Charadrius vociferus Columbidae Zenaida macroura Columbina passerina Strigidae Bubo virginianus Apodidae Aeronautes saxatalis True toads Western toad Treefrogs and allies Pacific treefrog REPTILES Phrynosomatids Western fence lizard Side-blotched lizard Alligator lizards Southern alligator lizard Colubrids Gopher snake Rattlesnakes Western rattlesnake

BIRDS Herons and Egrets Great blue heron Great egret Snowy egret Black-crowned night-heron Vultures Turkey vulture Geese and ducks Mallard Raptors

Cooper's hawk Red-shouldered hawk Red-tailed hawk Falcons

American kestrel Quail

California quail

Plovers Killdeer

Pidgeons and doves Mourning dove

Common ground-dove

Owls Great horned owl

Swifts

White-throated swift

Black-chinned hummingbird

Hummingbirds

WILDLIFE OBSERVED ON THE CARBON CANYON PROJECT SITE Trochilidae Archilochus alexandri Calypte anna Calypte costae Selasphorus sasin Picidae Melanerpes formicivorus Picoides nuttallii Picoides pubescens Tyrannidae Contopus sordidulus ** Empidonax traillii Empidonax difficilis Sayomis nigricans Sayomis saya Myiarchus cinerascens Tyrannus vociferans Tyrannus verticalis Vireonidae Vireo bellii pusillus Vireo plumbeus . Vireo cassinii Vireo huttoni Vireo gilvus Corvidae Aphelocoma californica Corvus brachyrhynchos Corvus corax Hirundinidae Tachycineta bicolor Stelgidopteryx serripennis Petrochelidon pyrrhonota Hirundo rustica Aegithalidae Psaltriparus minimus Troglodytidae Thryomanes bewickii Troglodytes aedon Turdidae Sialia mexicana Catharus ustulatus Catharus guttatus Turdus migratorius Timaliidae Chamaea fasciata Mimidae Mimus polyglottis

Toxostoma redivivum

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Anna's hummingbird Costa's hummingbird Allen's hummingbird Woodpeckers Acorn woodpecker Nuttall's woodpecker Downy woodpecker **Tyrant flycatchers** Western wood-pewee Willow flycatcher Pacific-slope flycatcher Black phoebe Say's phoebe Ash-throated flycatcher Cassin's kingbird Western kingbird Vireos Least Bell's vireo Plumbeous vireo Cassin's vireo Hutton's vireo Warbling vireo Jays and crows Western scrub-jay American crow Common raven Swallows Tree swallow Northern rough-winged swallow Cliff swallow Barn swallow Bushtits Bushtit Wrens Bewick's wren House wren Bluebirds and thrushes Western bluebird Swainson's thrush Hermit thrush American robin Wrentits Wrentit Mockingbirds and thrashers Northern mockingbird California thrasher

Starlings

WILDLIFE OBSERVED ON THE CARBON CANYON PROJECT SITE Sturnidae * Sturnus vulgaris Bombycillidae Bombycilla cedrorum Parulidae Vermivora celata Vermivora ruficapilla ** Dendroica petechia . Dendroica coronata Dendroica nigrescens Dendroica townsendi ** Dendroica occidentalis Oporornis tolmiei Geothlypis trichas Wilsonia pusilla ** Icteria virens Thraupidae Piranga ludoviciana Emberizidae Pipilo maculatus Piplio crissalis Melospiza melodia Zonotrichia leucophrys Zonotrichia atricapilla Cardinalidae Pheucticus melanocephalus Guiraca caerulea lcteridae Quiscalus mexicanus * Molothrus ater Icterus cucullatus lcterus bullockii Fringillidae Carpodacus mexicanus Carduelis psaltria Carduelis tristis Estrildidae Lonchura punctulata MAMMALIA

Talpidae . Scapanus latimanus Leporidae Sylvilagus audubonii Sciuridae Spermophilus beecheyi . Sciurus griseus Geomyidae Thomomys bottae Canidae Canis familiarus Canis latrans

European starling Waxwings Cedar waxwing Wood warblers Orange-crowned warbler Nashville Warbler Yellow warbler Yellow-rumped warbler Black-throated gray warbler Townsend's warbler Hermit warbler MacGillivray's warbler Common yellowthroat Wilson's warbler Yellow-breasted chat Tanagers Western tanager Towhees and sparrows Spotted towhee California towhee Song sparrow White-crowned sparrow Golden-crowned sparrow **Grosbeaks and buntings** Black-headed grosbeak Blue grosbeak **Blackbirds and orioles** Great-tailed grackle Brown-headed cowbird Hooded oriole Bullock's oriole Finches House finch Lesser goldfinch American goldfinch **Estrildid finches** Nutmeg mannikin MAMMALS Moles Broad-footed mole Hares and rabbits

Desert cottontail Squirrels California ground squirrel Western gray squirrel Pocket gophers Botta's pocket gopher (burrows) Dogs/wolves/foxes Domestic dog Coyote (scat, tracks)

WILDLIFE OBSERVED ON THE CARBON CANYON PROJECT SITE Weasels and allies ta Long-tailed weasel Horses and allies s Domestic horse

V Mustelidae Mustela frenata Equidea * Equus caballus

A-4

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January 27, 2003

Mr. Larry A. Rein ORANGE COUNTY SANITATION DISTRICT 10844 Ellis Avenue Fountain Valley, California 92708-7018

SUBJECT: DELINEATION OF JURISDICTIONAL WATERS Carbon Canyon Dam Sewer Pipeline Project

Dear Mr. Rein:

On behalf of RBF Consulting (RBF), we are pleased to submit this Delineation of Jurisdictional Waters for the above referenced project. The enclosed delineation was conducted on January 20, 2003 to document the regulatory authority of the U.S. Army Corps of Engineers (Corps) and California Department of Fish and Game's (CDFG) jurisdiction pursuant to the Federal Clean Water Act (CWA) and the State Fish and Game Code. The project area was surveyed pursuant to the Corps' *1987 Wetland Delineation Manual*, to identify evidence of flows, riparian vegetation, and hydric soils.

This report presents RBF's best effort at determining the jurisdictional boundaries using the most up-to-date regulations, written policy, and guidance from the regulatory agencies. However, as with any jurisdictional delineation, only the regulatory agencies can make a final determination of jurisdiction. Generally, this would be a written concurrence in the form of a Jurisdictional Determination (JD) letter.

Please note that based on a detailed review of current site conditions and proposed development plans, our research has indicated that it will be necessary for the project applicant to successfully obtain the following permits prior to commencement of construction activities within the delineated jurisdictional areas: Army Corps of Engineers 404 Permit, 1601 Streambed Alternation Agreement, and 401 Water Quality Standards Certification.

Please do not hesitate to contact me at 949/855-3686 or Richard Beck at 949/855-3687 if you or your staff has any questions or require further information.

Sincerely,

Bruce R. Grove Jr., REA Project Manager Environmental Services-Special Projects Richard Beck Regulatory Coordinator Environmental Services-Special Projects

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APPENDIX

- A. B. C. Wetland Data Forms Biological Constraints Survey Jurisdictional Map

DELINEATION OF JURISDICTIONAL WATERS

Carbon Canyon Dam Sewer Pipeline Project County of Orange, California

Prepared For:

ORANGE COUNTY SANITATION DISTRICT 10844 Ellis Avenue

Fountain Valley, California 92708-7018 Contact: Mr. Larry A. Rein 714/593-7375

Prepared By:

RBF Consulting

14725 Alton Parkway Irvine, California 92618 **Contact: Mr. Bruce R. Grove, Jr.** 949/855-3686 **Mr. Richard Beck** 949/855-3687

January 2003

JN 10-101519



1.0 INTRODUCTION AND PURPOSE

This report was prepared for the Orange County Sanitation District (OCSD) in order to delineate the U.S. Army Corps of Engineers' (Corps) and California Department of Fish and Game's (CDFG) jurisdictional authority for drainages located within a portion of the project site known as the Carbon Canyon Dam Sewer Pipeline Project. The project site is located within Carbon Canyon Regional Park, in the City of Brea, County of Orange, State of California (T.3S, R.9W SBBM) (refer to Exhibit 1, *Regional Vicinity* and Exhibit 2, *Site Vicinity*).

RBF Consulting (RBF) delineated the proposed impact area for the Carbon Canyon Dam Sewer Pipeline Project based upon impact boundaries provided by OCSD. This delineation has been designed to document the regulatory authority of the Corps and CDFG, the methodology undertaken by RBF to document jurisdictional authority, and the findings made by RBF within the boundaries of the proposed project site. This report presents our best effort at determining the jurisdictional boundaries using the most up-to-date regulations, written policy, and guidance from the regulatory agencies; however, only the regulatory agencies can make a final determination of jurisdictional boundaries.

1.1 **Project Description**

The proposed project would be located in the northeastern portion of the County of Orange, eastern portion of the City of Brea and the western portion of the Carbon Canyon Specific Plan area. The northern extent of the project would begin approximately 425 feet south of Carbon Canyon Road approximately ½ mile east of the Carbon Canyon Road and South Valencia Avenue intersection. The entire project length would progress north to south through the Carbon Canyon Regional Park, Carbon Canyon Dam and adjacent Aera Energy property in an approximate reverse "S" configuration. The southern extent of the project would terminate on the north side of the Rose Drive right-of-way, approximately 3/4 mile south of Carbon Canyon Road.

Background and History:

The OCSD owns and operates the Carbon Canyon Pump Station located within the 124-acre Carbon Canyon Regional Park. The Pump Station was originally built in 1974 and modified in 1984. Currently, there are two cast iron force mains, 4-inch and 6-inch in diameter, leaving the Pump Station. They both travel through the park and connect to an existing OCSD manhole at the top of Carbon Canyon Dam. Running parallel with the OCSD force mains is a 6-inch gravity waste water line owned by BreitBurn Energy Company that increases to 12-inches through the dam then reduces back to 6-inches and diverges from the OCSD alignment north of the intersections of Rose and Vesuvius Drives. Originally, OCSD sought to purchase the BreitBurn Energy Company lines in the vicinity of the dam and upstream to the pump station so that OCSD could abandon the pump station. However, and agreement could not be reached, therefore the current project was proposed.

The OCSD facilities were originally developed to serve land uses within the Carbon Canyon area that included the earlier Olinda Village tract and sparse residential development with later development including the Hollydale Mobile Estates. Recent community development has included the Olinda Heights tract and has the potential to include the Canyon Crest tract that is currently being considered by the City. Considering the fact that these later developments would contribute to the local sewage flow amounts, the proposed project is necessary.

Ex. 1 Regional



Ex. 2, Site