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SAN DIEGO VERNAL POOLS

RECENT AND PROJECTED LOSSES; THEIR CONDITION;
AND THREATS TO THEIR EXISTENCE
1979-1990

Volume II. APPENDICES 2,3,7

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SAN DIEGO VERNAL POOLS

RECENT AND PROJECTED LOSSES; THEIR CONDITION;
AND THREATS TO THEIR EXISTENCE.
1979-1990

VOLUME II

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Appendix 2. Species checklists, all pool groups.

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Tierrasanta Date 4-8-86 Data by CRS, ETB

Notes _____ Pool Number A4

Achillea millefolium	X Eriophyllum confertiflorum	X Orthocarpus purpurascens
X Adenostoma fasciculatum	X Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	X Plagiobothrys undulatus
X Anagallis minimus	X Filago arizonica	X Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	X Gastridium ventricosum	X Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polygonum monospeliensis
X Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	X Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
X Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	X Holocarpha virgata	X Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
X Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	X Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	X Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	X Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
X Calycadenia tenella	Juncus triformis	Sonchus
X Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	X Lasthenia coronaria	Stephanomeria virgata
X Centaurea melitensis	Lasthenia glabrata	X Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	X Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
X Chlorogalum parviflorum	Linaria canadensis	Trifolium
X Clarkia purpurea	Lolium perenne	Veronica peregrina
X Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	X Lotus scoparius	<u>Heteromeles arbutifolia</u>
Cotula coronopifolia	X Lotus strigosus	<u>Eriodictyon</u>
X Crassula aquatica	X Lupinus bicolor	<u>Lamarckia</u>
X Crassula erecta	X Lythrum hyssopifolia	<u>Mimulus puniceus</u>
Cryptantha intermedia	Marsilea vestita	<u>Helianthemum scoparium</u>
X Deschampsia danthonioides	Micropus californicus	
X Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	X Muilla clevelandii	
Downingia cuspidata	X Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	X Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
X Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Tierrasanta Date 7-10-86 Data by CRS

Notes _____ Pool Number A5⁺

- | | | |
|-----------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | X Gastridium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospermiensis |
| X Artemisia californica | X Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | X Selaginella cinerascens |
| Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Loium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | _____ |
| Cordylanthus | Lotus scoparius | _____ |
| Cotula coronopifolia | Lotus strigosus | _____ |
| X Crassula aquatica | Lupinus bicolor | _____ |
| Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| X Deschampsia danthonioides | Micropus californicus | _____ |
| Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | Muilla clevelandii | _____ |
| Downingia cuspidata | Muilla maritima | _____ |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Mira Mesa North Date 4-17-86 Data by CRS, ETB

Notes _____ Pool Number B5(x)
6(✓)

- | | | |
|------------------------------|----------------------------|-----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| ✓X Adenostoma fasciculatum | X Erodium botrys | X Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | ✓ Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| ✓X Anagallis minimus | Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | X Gastridium ventricosum | X Pogogyne abramsii |
| ✓ Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | ✓ Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | ✓X Psilocarphus brevissimus |
| X Avena barbata | Hedynois cretica | ✓X Psilocarphus tenellus |
| Avena fatua | ✓X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | X Holocarpha virgata | ✓ Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | ✓X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | X Isoetes howellii | Scrophularia californica |
| Bromus diandrus | ✓ Isoetes orcuttii | Scutellaria tuberosa |
| ✓X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| ✓X Bromus rubens | ✓X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | X Juncus rugulosus | X Silene gallica |
| ✓ Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| X Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | ✓X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | Lotus scoparius | <u>Xylococcus bicolor</u> |
| Cotula coronopifolia | Lotus strigosus | _____ |
| ✓X Crassula aquatica | Lupinus bicolor | _____ |
| Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| ✓X Deschampsia danthonioides | Micropus californicus | _____ |
| Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | Muilla clevelandii | _____ |
| X Downingia cuspidata | X Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| ✓X Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | ✓X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| Eriogonum fasciculatum | Urcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.

Compiled by E. Bauder, Feb. 1986

Location Mira Mesa North Date 4-17-86 Data by CRS, ETBNotes _____ Pool Number B 7-8

- | | | |
|-----------------------------|-------------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | X Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospermiensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | X Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | X Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| X Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | X Lasthenia glabrata | X Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | X Stipa lepida |
| X Chaetopappa aurea | X Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| X Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| X Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Opuntia littoralis</u> |
| Cotula coronopifolia | Lotus strigosus | _____ |
| X Crassula aquatica | Lupinus bicolor | _____ |
| Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| X Deschampsia danthonioides | Micropus californicus | _____ |
| X Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | X Muilla clevelandii | _____ |
| X Downingia cuspidata | X Muilla maritima | |
| Elatine brachysperma | X Myosurus minimus filiformis | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Mira Mesa North Date 4-17-86 Data by CRS, ETB

Notes _____ Pool Number B11

Achillea millefolium	Eriophyllum confertiflorum	X Orthocarpus purpurascens
X Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
X Anagallis minimus	X Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	X Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	X Polypogon monospeliensis
X Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	X Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
X Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	X Holocarpha virgata	Rhus laurina
Brassica nigra	X Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
X Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
X Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
X Calycadenia tenella	Juncus triformis	X Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	X Spargularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
X Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	X Lotus scoparius	<u>Galium angustifolium</u>
X Cotula coronopifolia	Lotus strigosus	<u>Ribes speciosum</u>
Crassula aquatica	Lupinus bicolor	
Crassula erecta	X Lythrum hyssopifolia	<u>Rumex crispus</u>
Cryptantha intermedia	Marsilea vestita	
X Deschampsia danthonioides	Micropus californicus	<u>Carpobrotus</u>
X Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	<u>Eucalyptus</u>
Dodecatheon clevelandii	Mulla clevelandii	
X Downingia cuspidata	Mulla maritima	
X Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
X Eleocharis macrostachya	X Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Mira Mesa North Date 4-17-86 Data by CRS, ETB

Notes _____ Pool Number B12

Achillea millefolium	Eriophyllum confertiflorum	X Orthocarpus purpurascens
X Adenostoma fasciculatum	X Erodium botrys	Phalaris lemmonii
Adolphia californica	X Erodium cicutarium	Pilularia americana
Agrostis	X Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
X Anagallis minimus	Filago arizonica	X Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Aplastrum angustifolium	Gastroidium ventricosum	X Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	X Polypogon monospeiensis
X Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
Avena barbata	X Hedypnois cretica	Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
X Baccharis sarothroides	Heterotheca grandiflora	X Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
X Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
X Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
X Bromus diandrus	X Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	X Juncus rugulosus	X Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
X Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
X Centaurea melitensis	X Lasthenia glabrata	Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
X Chlorogalum parviflorum	Linaria canadensis	Trifolium
X Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	X Lotus scoparius	<u>Rumex crispus</u>
Cotula coronopifolia	Lotus strigosus	
X Crassula aquatica	Lupinus bicolor	<u>Anagallis arvensis</u>
Crassula erecta	X Lythrum hyssopifolia	
Cryptantha intermedia	Marsilea vestita	<u>Quercus dumosa</u>
X Deschampsia danthonioides	Micropus californicus	
X Dichelostemma pulchellum	Microseris douglasii	<u>Melilotus</u>
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	X Muilla clevelandii	<u>Eriodictyon</u>
X Downingia cuspidata	X Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
X Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
X Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Mira Mesa North Date 4-17-86 Data by CRS, ETB

Notes _____ Pool Number 813

Achillea millefolium	Eriophyllum confertiflorum	X Orthocarpus purpurascens
X Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	X Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
X Anagallis minimus	X Filago arizonica	X Plantago bigelovii
X Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	Pogogyne abramsii
X Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	X Gnaphalium palustre	Polypogon monospermiensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	X Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	X Rhus integrifolia
Bloomeria crocea	Holocarpa virgata	Rhus laurina
Brassica nigra	X Hordeum glaucum	X Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
X Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	X Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
X Calandrinia ciliata	Juncus rugulosus	Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	X Spargula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	X Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	X Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	X Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	X Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
X Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	X Lotus scoparius	<u>Zygadenus</u>
X Cotula coronopifolia	Lotus strigosus	
X Crassula aquatica	Lupinus bicolor	<u>Xylococcus bicolor</u>
X Crassula erecta	Lythrum hyssopifolia	
X Cryptantha intermedia	Marsilea vestita	<u>Mimulus puniceus</u>
X Deschampsia danthonioides	Micropus californicus	
X Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Mulla clevelandii	
Downingia cuspidata	X Mulla maritima	
X Elatine brachysperma	X Myosurus minimus filiformis	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	X Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Mira Mesa Central Date 4-16-86 Data by CRS, ETB

Notes _____ Pool Number C117

Achillea millefolium	Eriophyllum confertiflorum	X Orthocarpus purpurascens
Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	X Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	X Plagiobothrys undulatus
X Anagallis minimus	Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	X Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeliensis
Artemisia californica	X Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	X Holocarpha virgata	X Rhus laurina
Brassica nigra	X Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	X Isoetes howellii	Scrophularia californica
X Bromus diandrus	X Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	X Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
X Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	X Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	X Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	X Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	Lotus scoparius	
X Cotula coronopifolia	Lotus strigosus	
X Crassula aquatica	X Lupinus bicolor	
Crassula erecta	X Lythrum hyssopifolia	
Cryptantha intermedia	Marsilea vestita	
X Deschampsia danthonioides	Micropus californicus	
Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
X Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
X Eleocharis macrostachya	X Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
X Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Mira Mesa Central Date 4-16-86 Data by CRS, ETB

Notes _____ Pool Number C 9-16

- | | | |
|----------------------------|------------------------------|--------------------------------|
| Achillea millefolium | X Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | Erodium botrys | X Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospermiensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| X Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | X Holocarpha virgata | Rhus laurina |
| Brassica nigra | X Hordeum glaucum | Salvia mellifera |
| X Brodiaea jolonensis | X Hypochaeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | X Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| X Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| X Centaurea melitensis | X Lasthenia glabrata | X Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | X Lilaea scilloides | X Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| X Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Sida</u> |
| X Cotula coronopifolia | Lotus strigosus | |
| X Crassula aquatica | X Lupinus bicolor | <u>Heteromeles arbutifolia</u> |
| Crassula erecta | X Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | <u>Helianthemum scoparium</u> |
| Deschampsia danthonioides | Micropus californicus | |
| X Dichelostemma pulchellum | Microseris douglasii | <u>Melilotus</u> |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | X Muilla clevelandii | |
| X Downingia cuspidata | X Muilla maritima | |
| X Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986.

Location Mira Mesa Central Date 4-16-86 Data by ETB, CRS

Notes _____ Pool Number C18

Achillea millefolium	X Eriophyllum confertiflorum	X Orthocarpus purpurascens
X Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	X Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	X Filago arizonica	X Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	X Gastridium ventricosum	X Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeliensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	X Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	X Rhus laurina
Brassica nigra	X Hordeum glaucum	X Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
X Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	X Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	X Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	X Juncus rugulosus	X Silene gallica
Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
X Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	X Lasthenia glabrata	X Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	X Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	X Trifolium
X Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	X Lotus scoparius	<u>Ceanothus tomentosus</u>
X Cotula coronopifolia	X Lotus strigosus	<u>Sida</u>
X Crassula aquatica	X Lupinus bicolor	
X Crassula erecta	X Lythrum hyssopifolia	<u>Mimulus puniceus</u>
X Cryptantha intermedia	Marsilea vestita	<u>Zygadenus</u>
X Deschampsia danthonioides	Micropus californicus	
X Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	X Muilla clevelandii	
X Downingia cuspidata	Y Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	X Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Mira Mesa Central Date 4-16-86 Data by CRS, ETB

Notes _____ Pool Number C 22

- | | | |
|---------------------------|-----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus |
| Anagallis minimus | X Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospermiensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| X Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | X Lasthenia glabrata | Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | X Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | _____ |
| Cordylanthus | X Lotus scoparius | _____ |
| X Cotula coronopifolia | Lotus strigosus | _____ |
| X Crassula aquatica | Lupinus bicolor | _____ |
| X Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| Deschampsia danthonioides | Micropus californicus | _____ |
| Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | Muilla clevelandii | _____ |
| X Downingia cuspidata | Muilla maritima | _____ |
| Elatine brachysperma | Myosurus minimus | _____ |
| Eleocharis acicularis | Navarretia atractyloides | _____ |
| Eleocharis bella | Navarretia prostrata | _____ |
| X Eleocharis macrostachya | Navarretia hamata | _____ |
| Eremocarpus setigerus | X Ophioglossum californicum | _____ |
| Eriogonum fasciculatum | Orcuttia californica | _____ |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Mira Mesa Central Date 7-10-86 Data by CRS

Notes _____ Pool Number C 26

- | | | |
|-----------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| Anagallis minimus | X Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | X Gastridium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | X Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | X Hedyotis cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | X Holocarpha virgata | Rhus laurina |
| X Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| X Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| X Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | X Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| X Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | X Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | _____ |
| Cordylanthus | Lotus scoparius | _____ |
| X Cotula coronopifolia | Lotus strigosus | _____ |
| X Crassula aquatica | Lupinus bicolor | _____ |
| X Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| X Deschampsia danthonioides | Micropus californicus | _____ |
| Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | Muilla clevelandii | _____ |
| Downingia cuspidata | Muilla maritima | _____ |
| Elatine brachysperma | Myosurus minimus | _____ |
| Eleocharis acicularis | Navarretia atractyloides | _____ |
| Eleocharis bella | Navarretia prostrata | _____ |
| Eleocharis macrostachya | Navarretia hamata | _____ |
| Eremocarpus setigerus | Ophioglossum californicum | _____ |
| Eriogonum fasciculatum | Orcuttia californica | _____ |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Mira Mesa Central Date 2-10-86 Data by CRS

Notes not previously mapped Pool Number C 27^r

- | | | |
|-----------------------------|----------------------------|--------------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | X Silene gallica |
| Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| X Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | <u>Xylococcus bicolor</u> |
| Cordylanthus | Lotus scoparius | <u>Heteromeles arbutifolia</u> |
| Cotula coronopifolia | Lotus strigosus | <u>Eriodictyon</u> |
| X Crassula aquatica | Lupinus bicolor | _____ |
| X Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| X Deschampsia danthonioides | Micropus californicus | _____ |
| Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | Muilla clevelandii | _____ |
| Downingia cuspidata | X Muilla maritima | _____ |
| Elatine brachysperma | Myosurus minimus | _____ |
| Eleocharis acicularis | Navarretia atractyloides | _____ |
| Eleocharis bella | Navarretia prostrata | _____ |
| Eleocharis macrostachya | X Navarretia hamata | _____ |
| X Eremocarpus setigerus | Ophioglossum californicum | _____ |
| X Eriogonum fasciculatum | Orcuttia californica | _____ |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Mira Mesa South Date 4-16-86 Data by CRS, ETB

Notes _____ Pool Number D1E3

- | | | |
|-----------------------------|-------------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Aplastrum angustifolium | X Gastridium ventricosum | Pogogyne abramsii. |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospermiensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | X Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | X Isoetes orcuttii | Scutellaria tuberosa |
| Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | X Lasthenia glabrata | Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | X Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | _____ |
| Cordylanthus | Lotus scoparius | _____ |
| X Cotula coronopifolia | Lotus strigosus | _____ |
| X Crassula aquatica | Lupinus bicolor | _____ |
| Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| X Deschampsia danthonioides | Micropus californicus | _____ |
| X Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | Muilla clevelandii | _____ |
| Downingia cuspidata | X Muilla maritima | _____ |
| Elatine brachysperma | X Myosurus minimus filiformis | |
| Eleocharis acicularis | Navarretia atractylodides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Mira Mesa South Date 4-16-86 Data by CRS, ETB

Notes _____ Pool Number D5-8, 16

Achillea millefolium	Eriophyllum confertiflorum	X Orthocarpus purpurascens
X Adenostoma fasciculatum	X Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	X Pilularia americana
Agrostis	X Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
X Anagallis minimus	X Filago arizonica	X Plantago bigelovii
X Antirrhinum	Galium aparine	X Plantago erecta
Apiastrum angustifolium	X Gastridium ventricosum	X Pogogyne abramsii
X Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	X Gnaphalium palustre	Polypogon monospeiensis
X Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	X Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	X Rhus laurina
Brassica nigra	Hordeum glaucum	X Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
X Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
X Bromus diandrus	X Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	X Juncus rugulosus	X Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	X Lasthenia glabrata	X Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	X Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	X Trichostema lanceolatum
X Chlorogalum parviflorum	Linaria canadensis	Trifolium
X Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	X Lotus scoparius	<u>Heteromeles arbutifolia</u>
Cotula coronopifolia	Lotus strigosus	<u>Ceanothus tumentosus</u>
X Crassula aquatica	Lupinus bicolor	<u>Eriodictyon</u>
X Crassula erecta	X Lythrum hyssopifolia	_____
Cryptantha intermedia	Marsilea vestita	_____
X Deschampsia danthonioides	Micropus californicus	
X Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
X Downingia cuspidata	X Muilla maritima	
X Elatine brachysperma	X Myosurus minimus filiformis	
Eleocharis acicularis	X Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
X Eleocharis macrostachya	X Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
X Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Kearny Villa South Date 4-7-86 Data by ETB, CRS

Notes _____ Pool Number E4

Achillea millefolium	Eriophyllum confertiflorum	X Orthocarpus purpurascens
Adenostoma fasciculatum	X Erodium botrys	X Phalaris lemmonii
Adolphia californica	X Erodium cicutarium	X Pilularia americana
Agrostis	X Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	X Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
X Anagallis minimus	Filago arizonica	X Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	X Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	X Gnaphalium palustre	Polypogon monospermiensis
Artemisia californica	X Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	X Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	X Holocarpha virgata	X Rhus laurina
X Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
X Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
X Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	X Juncus rugulosus	X Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	X Sonchus
Calochortus splendens	Lasthenia californica	Spergularia arvensis
Camissonia cistorta	Lasthenia chrysostoma	X Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	X Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
X Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	X Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	X Lotus scoparius	<u>Rumex crispus</u>
X Cotula coronopifolia	Lotus strigosus	
X Crassula aquatica	X Lupinus bicolor	<u>Helianthemum scoparium</u>
X Crassula erecta	X Lythrum hyssopifolia	
Cryptantha intermedia	Marsilea vestita	
Deschampsia danthonioides	Micropus californicus	
X Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	X Muilla clevelandii	
X Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
X Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
X Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Kearny Villa North Date 4-8-86 Data by ETB, CRS

Notes _____ Pool Number F 1-16, 20, 26

- | | | |
|-----------------------------|------------------------------|-------------------------------|
| Achillea millefolium | X Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | X Phalaris lemmonii |
| Adolphia californica | X Erodium cicutarium | X Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| X Allium haematochiton | X Eschscholzia californica | X Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | X Plantago erecta |
| Apiastrum angustifolium | X Gastridium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospermiensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | X Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| X Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | X Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | X Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| X Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | X Selaginella cinerascens |
| X Bromus rubens | Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | X Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| X Calycadenia tenella | Juncus triformis | X Sonchus |
| X Calochortus splendens | X Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | X Lilaea scilloides | X Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| X Chlorogalum parviflorum | Linaria canadensis | X Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Helianthemum scoparium</u> |
| X Cotula coronopifolia | Lotus strigosus | |
| X Crassula aquatica | X Lupinus bicolor | <u>Quercus dumosa</u> |
| X Crassula erecta | X Lythrum hyssopifolia | |
| X Cryptantha intermedia | Marsilea vestita | <u>Anagallis arvensis</u> |
| X Deschampsia danthonioides | Micropus californicus | |
| X Dichelostemma pulchellum | Microseris douglasii | <u>Eriodictyon</u> |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | X Muilla clevelandii | <u>Xylorhiza bicolor</u> |
| X Downingia cuspidata | X Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | <u>Yucca shidigera</u> |
| X Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | <u>Mimulus puniceus</u> |
| X Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | X Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Kearny Villa North Date 4-7-86 Data by ETB, CRS

Notes _____ Pool Number F17

Achillea millefolium	Eriophyllum confertiflorum	X Orthocarpus purpurascens
X Adenostoma fasciculatum	X Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	X Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	X Plagiobothrys undulatus
X Anagallis minimus	Filago arizonica	X Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	X Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	X Polypogon monospermiensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	X Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
X Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	X Rhus laurina
Brassica nigra	X Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
X Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	X Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	X Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	X Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	X Lasthenia californica	Spergula arvensis
Camissonia distorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
X Chaetopappa aurea	Lilaea scilloides	X Stylocline gnaphalioides
Chorizanthe	X Linanthus dianthiflorus	Trichostema lanceolatum
X Chlorogalum parviflorum	Linaria canadensis	Trifolium
X Clarkia purpurea	Lolium perenne	Veronica peregrina
X Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	X Lotus scoparius	<u>Rumex crispus</u>
X Cotula coronopifolia	Lotus strigosus	<u>Xylococcus bicolor</u>
X Crassula aquatica	X Lupinus bicolor	_____
X Crassula erecta	Lythrum hyssopifolia	_____
X Cryptantha intermedia	Marsilea vestita	_____
X Deschampsia danthonioides	Micropus californicus	_____
X Dichelostemma pulchellum	X Microseris douglasii	_____
Dichondra occidentalis	Montia fontana	_____
Dodecatheon clevelandii	X Muilla clevelandii	_____
X Downingia cuspidata	X Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	X Navarretia hamata	
X Eremocarpus setigerus	Ophioglossum californicum	
X Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Kearny Villa North Date 4-8-86 Data by CRS, ETB

Notes _____ Pool Number F19

Achillea millefolium	X Eriophyllum confertiflorum	X Orthocarpus purpurascens
X Adenostoma fasciculatum	X Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
X Anagallis minimus	Filago arizonica	X Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	X Pogogyne abramsii
X Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polygonum monospeliensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	X Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	X Holocarpha virgata	X Rhus laurina
Brassica nigra	Hordeum glaucum	X Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
X Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
X Calandrinia ciliata	X Juncus rugulosus	Silene gallica
Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	X Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	X Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
X Chaetopappa aurea	Lilaea scilloides	X Stylocline gnaphalioides
Chorizanthe	X Linanthus dianthiflorus	Trichostema lanceolatum
X Chlorogalum parviflorum	Linaria canadensis	X Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	Lotus scoparius	
Cotula coronopifolia	X Lotus strigosus	
X Crassula aquatica	Lupinus bicolor	
X Crassula erecta	Lythrum hyssopifolia	
X Cryptantha intermedia	Marsilea vestita	
X Deschampsia danthonioides	Micropus californicus	
X Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
X Downingia cuspidata	X Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	X Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	X Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
X Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Kearny Villa North Date 4-8-86 Data by CRS, ETB

Notes _____ Pool Number F 27

Achillea millefolium	Eriophyllum confertiflorum	x Orthocarpus purpurascens
x Adenostoma fasciculatum	x Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	x Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	x Plagiobothrys undulatus
x Anagallis minimus	x Filago arizonica	x Plantago bigelovii
Antirrhinum	Galium aparine	x Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	x Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeliensis
x Artemisia californica	Haplopappus venetus	x Psilocarphus brevissimus
x Avena barbata	x Hedypnois cretica	x Psilocarphus tenellus
Avena fatua	x Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	x Rhus laurina
Brassica nigra	x Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	x Hypochoeris glabra	Sanicula bipinnatifida
x Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
x Bromus diandrus	x Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	x Selaginella cinerascens
x Bromus rubens	x Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
x Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	x Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	x Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	x Stipa pulchra
x Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
x Chaetopappa aurea	x Lilaea scilloides	x Stylocline gnaphalioides
Chorizanthe	x Linanthus dianthiflorus	Trichostema lanceolatum
x Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
x Cneoridium dumosum	Lomatium dasycarpum	x Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	x Lotus scoparius	<u>Xylococcus bicolor</u>
Cotula coronopifolia	x Lotus strigosus	<u>Viola pedunculata</u>
x Crassula aquatica	x Lupinus bicolor	<u>Eriodictyon</u>
x Crassula erecta	x Lythrum hyssopifolia	<u>Opuntia littoralis</u>
x Cryptantha intermedia	Marsilea vestita	
Deschampsia danthonioides	Micropus californicus	
x Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	x Muilla clevelandii	
Downingia cuspidata	x Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	x Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
x Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Kearny Villa North Date 4-8-86 Data by CAS, ETB

Notes _____ Pool Number F18, 28

- | | | |
|-----------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | X Erodium cicutarium | X Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| X Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | X Plantago bigelovii |
| X Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastridium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| X Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| X Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | X Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| X Bromus diandrus | X Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | Juncus bufonius | Sibara virginica |
| X Calandrinia ciliata | X Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | X Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | X Sonchus |
| Calochortus splendens | X Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| X Chaetopappa aurea | X Lilaea scilloides | X Stylocline gnaphalioides |
| Chorizanthe | X Linanthus dianthiflorus | Trichostema lanceolatum |
| X Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| X Clarkia purpurea | Lolium perenne | Veronica peregrina |
| X Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Xylococcus bicolor</u> |
| X Cotula coronopifolia | X Lotus strigosus | <u>Zygadenus</u> |
| X Crassula aquatica | X Lupinus bicolor | <u>Yucca schidigera</u> |
| X Crassula erecta | X Lythrum hyssopifolia | <u>Eriodictyon</u> |
| X Cryptantha intermedia | Marsilea vestita | |
| X Deschampsia danthonioides | Micropus californicus | |
| X Dichelostemma pulchellum | X Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Muilla clevelandii | |
| X Downingia cuspidata | X Muilla maritima | |
| X Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | X Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Penasquitos North Date 4-23-86 Data by CRS

Notes _____ Pool Number H1

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
x Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	x Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	Filago arizonica	Plantago bigelovii
x Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastridium ventricosum	Pogogyne abramsii
x Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeliensis
Artemisia californica	Haplopappus venetus	Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	x Psilocarphus tenellus
Avena fatua	x Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	x Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
x Bromus mollis	Jepsonia parryi	x Selaginella cinerascens
x Bromus rubens	x Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
x Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	x Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	x Linanthus dianthiflorus	Trichostema lanceolatum
x Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	x Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	Lotus scoparius	<u>Gnaphalium sp.</u>
Cotula coronopifolia	Lotus strigosus	<u>Chlorogalum pomeridianum.</u>
x Crassula aquatica	Lupinus bicolor	_____
Crassula erecta	Lythrum hyssopifolia	_____
Cryptantha intermedia	Marsilea vestita	_____
x Deschampsia danthonioides	Micropus californicus	_____
Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya x	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Penasquitos North Date 4-23-86 Data by CRS

Notes _____ Pool Number #2

- | | | |
|-----------------------------|-------------------------------|--------------------------------|
| Achillea millefolium | X Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | Plantago bigelovii |
| X Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | X Gastridium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | X Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | X Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | X Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | X Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | X Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| X Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| X Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | X Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | X Stylocline gnaphalioides |
| X Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| X Clarkia purpurea | Lolium perenne | X Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Quercus dumosa</u> |
| Cotula coronopifolia | Lotus strigosus | |
| X Crassula aquatica | Lupinus bicolor | <u>Galium angustifolium</u> |
| X Crassula erecta | Lythrum hyssopifolia | |
| X Cryptantha intermedia | Marsilea vestita | <u>Baccharis pilularis</u> |
| X Deschampsia danthonioides | Micropus californicus | |
| X Dichelostemma pulchellum | Microseris douglasii | <u>Gnaphalium californicum</u> |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | X Muilla clevelandii | <u>Opuntia littoralis</u> |
| Downingia cuspidata | Muilla maritima | |
| X Elytine brachysperma | X Myosurus minimus filiformis | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Opnioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Penasquitos North Date 4-23-86 Data by CRS

Notes _____ Pool Number H3

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
x Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	x Pilularia americana
Agrostis	x Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	x Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospermiensis
Artemisia californica	Haplopappus venetus	Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	x Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	x Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	x Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	x Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
x Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	x Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	Lotus scoparius	<u>Quercus dumosa</u>
Cotula coronopifolia	Lotus strigosus	<u>Heteromeles arbutifolia</u>
x Crassula aquatica	Lupinus bicolor	_____
x Crassula erecta	Lythrum hyssopifolia	_____
Cryptantha intermedia	Marsilea vestita	_____
Deschampsia danthonioides	Micropus californicus	
Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
x Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	x Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Penasquitos North Date 5-14-86 Data by CRS

Notes _____ Pool Number 44

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|-----------------------------|----------------------------|-----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| x Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | x Eryngium aristulatum | x Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| x Anagallis minimus | Filago arizonica | x Plantago bigelovii |
| Antirrhinum | Galium aparine | x Plantago erecta |
| Apiastrum angustifolium | x Gastridium ventricosum | x Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monspeliensis |
| Artemisia californica | Haplopappus venetus | x Psilocarphus brevissimus |
| x Avena barbata | Hedypnois cretica | x Psilocarphus tenellus |
| Avena fatua | x Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | x Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | x Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| x Bromus mollis | Jepsonia parryi | x Selaginella cinerascens |
| x Bromus rubens | x Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| x Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergularia arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | x Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | x Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | x Vulpia myuros |
| Conyza canadensis | Lotus hamatus | <u>Baccharis pilularis</u> |
| Cordylanthus | Lotus scoparius | _____ |
| Cotula coronopifolia | Lotus strigosus | _____ |
| x Crassula aquatica | Lupinus bicolor | _____ |
| x Crassula erecta | x Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| x Deschampsia danthonioides | Micropus californicus | _____ |
| x Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | Muilla clevelandii | _____ |
| Downingia cuspidata | Muilla maritima | _____ |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | x Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| x Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.

Compiled by E. Bauder, Feb. 1986

Location Penasquitas North Date 4-3-86 Data by CRS, CCPNotes _____ Pool Number #5

- | | | |
|-----------------------------|-------------------------------|---------------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| X Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | X Eryngium aristulatum | X Pityrogramma triangularis |
| X Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | X Plantago erecta |
| Apiastrum angustifolium | X Gastridium ventricosum | X Pogogyne abramsii |
| X Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | X Gnaphalium palustre | Polygonum monspeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | X Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | X Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| X Bromus diandrus | X Isoetes orcuttii | X Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | X Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | X Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| X Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | X Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| X Centaurea melitensis | X Lasthenia glabrata | X Stipa pulchra |
| X Centaureium venustum | Lepidium lasiocarpum | X Stipa lepida |
| X Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| X Chlorogalum parviflorum | Linaria canadensis | X Trifolium |
| X Clarkia purpurea | Lolium perenne | Veronica peregrina |
| X Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Gnaphalium sp</u> |
| X Cotula coronopifolia | Lotus strigosus | <u>Xylococcus bicolor</u> |
| X Crassula aquatica | Lupinus bicolor | <u>Galium angustifolium</u> |
| X Crassula erecta | X Lythrum hyssopifolia | <u>Zygadenus fremontii</u> |
| X Cryptantha intermedia | Marsilea vestita | <u>Anagallis arvensis</u> |
| X Deschampsia danthonioides | Micropus californicus | <u>Plagiobothrys bracteatus</u> |
| X Dichelostemma pulchellum | Microseris douglasii | <u>Quercus dumosa</u> |
| Dichondra occidentalis | Montia fontana | |
| X Dodecatheon clevelandii | X Muilla clevelandii | |
| X Downingia cuspidata | X Muilla maritima | |
| Elatine brachysperma | X Myosurus minimus filiformis | |
| Eleocharis acicularis | X Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | X Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Penasquitos North Date 5-7-86 Data by CRS

Notes _____ Pool Number H 6

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
x Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	x Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	x Plagiobothrys undulatus
x Anagallis minimus	x Filago arizonica	x Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	x Gastridium ventricosum	x Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	x Polypogon monospeliensis
Artemisia californica	x Haplopappus venetus	x Psilocarphus brevissimus
x Avena barbata	Hedypnois cretica	x Psilocarphus tenellus
Avena fatua	x Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	x Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	x Rhus laurina
Brassica nigra	Hordeum glaucum	x Salvia mellifera
Brodiaea jolonensis	x Hypochoeris glabra	Sanicula bipinnatifida
x Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	x Isoetes orcuttii	Scutellaria tuberosa
x Bromus mollis	Jepsonia parryi	Selaginella cinerascens
x Bromus rubens	x Juncus bufonius	Sibara virginica
Calandrinia ciliata	x Juncus rugulosus	x Silene gallica
x Callitriche marginata	Juncus sphaerocarpus	x Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	x Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	x Stipa pulchra
x Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
x Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
x Chlorogalum parviflorum	Linaria canadensis	x Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
x Cneoridium dumosum	Lomatium dasycarpum	x Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	Lotus scoparius	<u>Yucca schidigera</u>
Cotula coronopifolia	Lotus strigosus	_____
x Crassula aquatica	Lupinus bicolor	_____
x Crassula erecta	Lythrum hyssopifolia	_____
Cryptantha intermedia	Marsilea vestita	_____
x Deschampsia danthonioides	Micropus californicus	_____
x Dichelostemma pulchellum	x Microseris douglasii	_____
Dichondra occidentalis	Montia fontana	_____
- Dodecatheon clevelandii	Muilla clevelandii	_____
Downingia cuspidata	x Muilla maritima	
x Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
x Eleocharis macrostachya	x Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Penasquitos North Date 4-23-86 Data by CBS

Notes _____ Pool Number #7

- | | | |
|-----------------------------|-------------------------------|--------------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| X Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Aplastrum angustifolium | Gastridium ventricosum | Pogogyne abramsii |
| X Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | X Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | X Isoetes orcuttii | Scutellaria tuberosa |
| Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | X Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizantne | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Quercus dumosa</u> |
| Cotula coronopifolia | Lotus strigosus | |
| X Crassula aquatica | Lupinus bicolor | <u>Anagallis arvensis</u> |
| Crassula erecta | Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | <u>Heteromeles arbutifolia</u> |
| X Deschampsia danthonioides | Micropus californicus | |
| Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Muilla clevelandii | |
| Downingia cuspidata | Muilla maritima | |
| X Elatine brachysperma | X Myosurus minimus filiformis | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Penasquitos North Date 6-4-86 Data by CRS

Notes _____ Pool Number H8

- | | | |
|---------------------------|----------------------------|---------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| x Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| Anagallis minimus | x Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | Pogogyne abramsii |
| x Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | Psilocarphus brevissimus |
| Avena barbata | Hedypnois cretica | x Psilocarphus tenellus |
| Avena fatua | x Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | x Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | x Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| Bromus rubens | Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| x Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | x Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | x Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | Lotus scoparius | <u>Quercus dumosa</u> |
| Cotula coronopifolia | Lotus strigosus | <u>Festuca octoflora</u> |
| Crassula aquatica | Lupinus bicolor | _____ |
| x Crassula erecta | Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| Deschampsia danthonioides | Micropus californicus | _____ |
| Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | Muilla clevelandii | _____ |
| Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | x Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.

Compiled by E. Bauder, Feb. 1986

Location Perasquitos North Date 4-23-86 Data by CRSNotes _____ Pool Number 49

- | | | |
|-----------------------------|--------------------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| X Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| X Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | X Rhus integrifolia |
| Bloomeria crocea | Holocarpa virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | X Salvia mellifera |
| Brodiaea jolonensis | Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | X Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| X Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea mellitensis | Lasthenia glabrata | Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | X Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | X Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Quercus dumosa</u> |
| Cotula coronopifolia | Lotus strigosus | <u>Opuntia littoralis</u> |
| Crassula aquatica | Lupinus bicolor | <u>Anagallis arvensis</u> |
| X Crassula erecta | Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | |
| X Deschampsia danthonioides | Micropus californicus | |
| X Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | X Muilla clevelandii | |
| Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | X Myosurus minimus <i>filiformis</i> | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.

Compiled by E. Bauder, Feb. 1986

Location Penasquitos North Date 3-27-86 Data by CRS, CCPNotes _____ Pool Number H10

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
x Adenostoma fasciculatum	Erodium botrys	x Phalaris lemmonii
Adolphia californica	Erodium cicutarium	x Pilularia americana
Agrostis	x Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	x Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
x Anagallis minimus	x Filago arizonica	x Plantago bigelovii
Antirrhinum	Galium aparine	x Plantago erecta
Apiastrum angustifolium	x Gastridium ventricosum	x Pogogyne abramsii
x Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	x Gnaphalium palustre	x Polypogon monospermiensis
Artemisia californica	Haplopappus venetus	x Psilocarphus brevissimus
x Avena barbata	Hedypnois cretica	x Psilocarphus tenellus
Avena fatua	x Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	x Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	x Rhus laurina
Brassica nigra	Hordeum glaucum	x Salvia mellifera
Brodiaea jolonensis	x Hypochoeris glabra	Sanicula bipinnatifida
x Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	x Isoetes orcuttii	Scutellaria tuberosa
x Bromus mollis	x Jepsonia parryi	x Selaginella cinerascens
x Bromus rubens	x Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
x Callitriche marginata	Juncus sphaerocarpus	x Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	x Lasthenia californica	Spergularia arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	x Lasthenia glabrata	Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	x Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
x Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
x Chlorogalum parviflorum	Linaria canadensis	x Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	x Vulpia myuros
Conyza canadensis	Lotus hamatus	<u>Quercus dumosa</u>
Cordylanthus	x Lotus scoparius	<u>Euphorbia pepus</u>
Cotula coronopifolia	Lotus strigosus	<u>Xylococcus bicolor</u>
x Crassula aquatica	Lupinus bicolor	<u>Gnaphalium sp</u>
x Crassula erecta	x Lythrum hyssopifolia	<u>Baccharis pilularis</u>
Cryptantha intermedia	Marsilea vestita	
x Deschampsia danthonioides	Micropus californicus	
x Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	x Muilla clevelandii	
Downingia cuspidata	x Muilla maritima	
Elatine brachysperma	x Myosurus minimus filiformis	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
x Eleocharis macrostachya	x Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Penasquitos North Date 4-30-86 Data by CAS

Notes _____ Pool Number H 11-12

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Y Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	X Pilularia americana
Agrostis	X Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
X Anagallis minimus	X Filago arizonica	X Plantago bigelovii
X Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastrium ventricosum	Pogogyne abramsii
X Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	X Gnaphalium palustre	X Polygomon monospeliensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	X Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	X Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	X Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	X Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	X Juncus rugulosus	Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	X Spargula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	X Lasthenia coronaria	Stephanomeria virgata
X Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	X Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
X Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	X Lotus scoparius	<u>Quercus dumosa</u>
Cotula coronopifolia	Lotus strigosus	<u>Anagallis arvensis</u>
X Crassula aquatica	Lupinus bicolor	<u>Gnaphalium calif.</u>
X Crassula erecta	Lythrum hyssopifolia	
X Cryptantha intermedia	Marsilea vestita	
X Deschampsia danthonioides	Micropus californicus	
X Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
X Elatine brachysperma	X Myosurus minimus filiformis	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
X Eleocharis macrostachya	X Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.

Compiled by E. Bauder, Feb. 1986

Location Penasquitos North Date 4-3-86 Data by CRSNotes _____ Pool Number H13 # 23

- | | | |
|-----------------------------|-------------------------------|--------------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| x Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | x Pilularia americana |
| Agrostis | x Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| x Anagallis minimus | x Filago arizonica | x Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | Pogogyne abramsii |
| x Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | x Gnaphalium palustre | Polygomon monospeliensis |
| Artemisia californica | Haplopappus venetus | x Psilocarphus brevissimus |
| Avena barbata | Hedypnois cretica | x Psilocarphus tenellus |
| Avena fatua | x Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | x Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | Hypochoeris glabra | Sanicula bipinnatifida |
| x Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | x Isoetes orcuttii | Scutellaria tuberosa |
| x Bromus mollis | Jepsonia parryi | x Selaginella cinerascens |
| Bromus rubens | Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| x Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| x Centaurium venustum | Lepidium lasiocarpum | x Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| x Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Vernonia peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | Vulpia myuros |
| Conyza canadensis | Lotus hamatus | <u>Quercus dumosa</u> |
| Cordylanthus | x Lotus scoparius | <u>Opuntia littoralis</u> |
| Cotula coronopifolia | Lotus strigosus | <u>Galium angustifolium</u> |
| x Crassula aquatica | Lupinus bicolor | <u>Lamarckia aurea</u> |
| x Crassula erecta | Lythrum hyssopifolia | <u>Gnaphalium sp</u> |
| Cryptantha intermedia | Marsilea vestita | <u>Heteromeles arbutifolia</u> |
| x Deschampsia danthonioides | Micropus californicus | <u>Festuca octoflora</u> |
| x Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Muilla clevelandii | |
| Downingia cuspidata | Muilla maritima | |
| x Elatine brachysperma | x Myosurus minimus filiformis | |
| x Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| x Eleocharis macrostachya | x Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.

Compiled by E. Bauder, Feb. 1986

Location Penasquitos North Date 5-14-86 Data by CRS, PZ, CCPNotes _____ Pool Number H 14-15

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
x Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	x Pilularia americana
Agrostis	x Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
x Anagallis minimus	x Filago arizonica	x Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	x Gastridium ventricosum	x Pogogyne abramsii
x Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	x Gnaphalium palustre	Polypogon monospeliensis
Artemisia californica	Haplopappus venetus	x Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	x Psilocarphus tenellus
Avena fatua	x Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	x Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	x Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	x Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	x Isoetes orcuttii	Scutellaria tuberosa
x Bromus mollis	Jepsonia parryi	Selaginella cinerascens
x Bromus rubens	x Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
x Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	x Sonchus
Calochortus splendens	Lasthenia californica	Spergularia arvensis
Camissonia cistorta	Lasthenia chrysostoma	x Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	x Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
x Chorizanthe <i>polygonooides</i>	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	Vulpia myuros
Conyza canadensis	Lotus hamatus	<u>Quercus dumosa</u>
Cordylanthus	x Lotus scoparius	<u>Festuca octoflora</u>
Cotula coronopifolia	Lotus strigosus	<u>Opuntia littoralis</u>
x Crassula aquatica	Lupinus bicolor	<u>Solanum xanthii</u>
x Crassula erecta	Lythrum hyssopifolia	<u>Baccharis pilularis</u>
Cryptantha intermedia	Marsilea vestita	<u>Galium angustifolium</u>
y Deschampsia danthonioides	Micropus californicus	
Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
Elatine brachysperma	x Myosurus minimus filiformis	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	x Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Penasquitos North Date 4-2-86 Data by CRS

Notes _____ Pool Number H18

Achillea millefolium	Eriophyllum confertiflorum	X Orthocarpus purpurascens
X Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	X Pilularia americana
Agrostis	X Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	X Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
X Anagallis minimus	X Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Aplastrum angustifolium	X Gastridium ventricosum	X Pogogyne abramsii
X Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	X Gnaphalium palustre	Polypogon monospermiensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	X Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	X Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	X Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
X Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	X Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergularia arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	X Lasthenia glabrata	X Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	X Stipa lepida
X Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
X Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
X Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	X Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	X Lotus scoparius	<u>Quercus dumosa</u>
Cotula coronopifolia	Lotus strigosus	<u>Opuntia littoralis</u>
X Crassula aquatica	Lupinus bicolor	<u>Zygadenus fremontii</u>
X Crassula erecta	Lythrum hyssopifolia	<u>Baccharis pilularis</u>
Cryptantha intermedia	Marsilea vestita	
X Deschampsia danthonioides	Micropus californicus	
Dichelostemma pulchellum	X Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	X Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
Elatine brachysperma	X Myosurus minimus filiformis	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
X Eleocharis macrostachya	X Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.

Compiled by E. Bauder, Feb. 1986

Location Penasquites North Date 4-30-86 Data by CRSNotes _____ Pool Number 419

- | | | |
|-----------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| X Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | Plantago bigelovii |
| X Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | X Polypogon monospeliensis |
| X Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | X Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| X Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | X Isoetes howellii | Scrophularia californica |
| X Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | X Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | X Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| X Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Quercus dumosa</u> |
| Cotula coronopifolia | Lotus strigosus | <u>Sida malveflora</u> |
| X Crassula aquatica | Lupinus bicolor | <u>Opuntia littoralis</u> |
| X Crassula erecta | X Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | |
| X Deschampsia danthonioides | Micropus californicus | |
| Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Muilla clevelandii | |
| X Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| X Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.

Compiled by E. Bauder, Feb. 1986

Location Penasquitas North Date 4-30-86 Data by CRSNotes _____ Pool Number 420

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
x Adenostoma fasciculatum	x Erodium botrys	x Phalaris lemmonii
Adolphia californica	Erodium cicutarium	x Pilularia americana
Agrostis	x Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
x Anagallis minimus	x Filago arizonica	x Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	x Gastridium ventricosum	x Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	x Gnaphalium palustre	x Polypogon monospermiensis
Artemisia californica	Haplopappus venetus	x Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	x Psilocarphus tenellus
Avena fatua	x Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	x Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	x Hypochoeris glabra	Sanicula bipinnatifida
x Brodiaea orcuttii	x Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
x Bromus mollis	Jepsonia parryi	Selaginella cinerascens
x Bromus rubens	x Juncus bufonius	Sibara virginica
Calandrinia ciliata	x Juncus rugulosus	Silene gallica
x Callitriche marginata	Juncus sphaerocarpus	x Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
x Calochortus splendens	Lasthenia californica	Spergularia arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris.	Lasthenia coronaria	Stephanomeria virgata
x Centaurea melitensis	Lasthenia glabrata	x Stipa pulchra
x Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	x Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	x Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	x Lotus scoparius	<u>Quercus dumosa</u>
Cotula coronopifolia	Lotus strigosus	<u>Solanum xantii</u>
x Crassula aquatica	Lupinus bicolor	<u>Phacelia sp.</u>
x Crassula erecta	x Lythrum hyssopifolia	
Cryptantha intermedia	Marsilea vestita	
x Deschampsia danthonioides	Micropus californicus	
x Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
x Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
x Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
x Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Penasquitos North Date 5-14-86 Data by CRS

Notes _____ Pool Number H21

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|-----------------------------|-------------------------------|-----------------------------|
| Achillea millefolium | X Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | X Pityrogramma triangularis |
| Allium naematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | X Plantago bigelovii |
| Antirrhinum | X Galium aparine | X Plantago erecta |
| Apiastrum angustifolium | X Gastridium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | X Polypogon monospermiensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| X Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | X Salvia mellifera |
| X Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| X Bromus diandrus | X Isoetes orcuttii | X Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | X Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| X Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia distorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| X Centaurea melitensis | X Lasthenia glabrata | X Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| X Chaetopappa aurea | Lilaea scilloides | X Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | X Trifolium |
| X Clarkia purpurea | Lolium perenne | X Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Galium angustifolium</u> |
| Cotula coronopifolia | Lotus strigosus | <u>Xylococcus bicolor</u> |
| X Crassula aquatica | Lupinus bicolor | <u>Festuca octoflora</u> |
| X Crassula erecta | X Lythrum hyssopifolia | <u>Anagallis arvensis</u> |
| Cryptantha intermedia | Marsilea vestita | <u>Ceanothus tomentosus</u> |
| X Deschampsia danthonioides | Micropus californicus | <u>Quercus dumosa</u> |
| X Dichelostemma pulchellum | Microseris douglasii | <u>Solanum rantii</u> |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | X Muilla clevelandii | |
| Downingia cuspidata | X Muilla maritima | |
| Elatine brachysperma | X Myosurus minimus filiformis | |
| Eleocharis acicularis | X Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Penasquitos North Date 2-26-86 Data by CRS

Notes damaged - some gone to N of road Pool Number H 22

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
x Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	x Plagiobothrys undulatus
x Anagallis minimus	Filago arizonica	x Plantago bigelovii
Antirrhinum	Galium aparine	x Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	x Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polygomon monospeliensis
Artemisia californica	Haplopappus venetus	x Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	x Psilocarphus tenellus
Avena fatua	Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
x Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	x Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
x Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	Vulpia myuros
Conyza canadensis	Lotus hamatus	_____
Cordylanthus	Lotus scoparius	_____
Cotula coronopifolia	Lotus strigosus	_____
x Crassula aquatica	Lupinus bicolor	_____
x Crassula erecta	x Lythrum hyssopifolia	_____
Cryptantha intermedia	Marsilea vestita	_____
x Deschampsia danthonioides	Micropus californicus	_____
Dichelostemma pulchellum	Microseris douglasii	_____
Dichondra occidentalis	x Montia fontana	_____
Dodecatheon clevelandii	Muilla clevelandii	_____
Downingia cuspidata	Muilla maritima	_____
Elatine brachysperma	Myosurus minimus	
x Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
x Eleocharis macrostachya	x Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Mira mar Industrial Date 4-15-86 Data by CRS, ETB

Notes _____ Pool Number I-1

- | | | |
|-----------------------------|------------------------------|--------------------------------|
| Achillea millefolium | x Eriophyllum confertiflorum | x Orthocarpus purpurascens |
| x Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | x Pilularia americana |
| Agrostis | x Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | x Plagiobothrys undulatus |
| x Anagallis minimus | x Filago arizonica | x Plantago bigelovii |
| x Antirrhinum | x Galium aparine | y Plantago erecta |
| Apiastrum angustifolium | x Gastridium ventricosum | x Pogogyne abramsii |
| x Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | y Psilocarphus brevissimus |
| Avena barbata | Hedypnois cretica | x Psilocarphus tenellus |
| Avena fatua | x Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | x Rhus integrifolia |
| Bloomeria crocea | Holocarpa virgata | x Rhus laurina |
| Brassica nigra | Hordeum glaucum | x Salvia mellifera |
| Brodiaea jolonensis | Hypochoeris glabra | Sanicula bipinnatifida |
| x Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | x Isoetes orcuttii | x Scutellaria tuberosa |
| x Bromus mollis | Jepsonia parryi | x Selaginella cinerascens |
| x Bromus rubens | x Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | y Silene gallica |
| x Callitriche marginata | Juncus sphaerocarpus | x Sisyrinchium bellum |
| x Calycadenia tenella | Juncus triformis | Sonchus |
| x Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| x Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| x Chaetopappa aurea | Lilaea scilloides | x Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| x Chlorogalum parviflorum | Linaria canadensis | x Trifolium |
| x Clarkia purpurea | Lolium perenne | Veronica peregrina |
| x Cneoridium dumosum | Lomatium dasycarpum | x Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | x Lotus scoparius | <u>Xylococcus bicolor</u> |
| x Cotula coronopifolia | x Lotus strigosus | <u>Zygadenus fremontii</u> |
| x Crassula aquatica | Lupinus bicolor | <u>Heteromeles arbutifolia</u> |
| x Crassula erecta | Lythrum hyssopifolia | <u>Habernaria sp</u> |
| x Cryptantha intermedia | Marsilea vestita | <u>Eriodictyon</u> |
| x Deschampsia danthonioides | Micropus californicus | |
| x Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | x Muilla clevelandii | |
| x Downingia cuspidata | x Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| x Eleocharis macrostachya | x Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| x Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Miramar Industrial Date 4-15-86 Data by CRS, ETB

Notes Midway Drive-In Pool Number I 6 A⁺

- | | | |
|-----------------------------|-------------------------------|-----------------------------|
| Achillea millefolium | X Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | X Erodium cicutarium | X Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | X Plantago bigelovii |
| X Antirrhinum | Galium aparine | X Plantago erecta |
| Apiastrum angustifolium | X Gastridium ventricosum | X Pogogyne abramsii |
| X Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | X Polypogon monospeliensis |
| Artemisia californica | X Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | X Holocarpha virgata | X Rhus laurina |
| X Brassica nigra | X Hordeum glaucum | X Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| X Bromus diandrus | X Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | X Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | X Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| X Calycadenia tenella | Juncus triformis | Sonchus |
| X Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | X Lasthenia coronaria | Stephanomeria virgata |
| X Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | X Stipa lepida |
| X Chaetopappa aurea | X Lilaea scilloides | X Stylocline gnaphalioides |
| Chorizanthe | X Linanthus dianthiflorus | Trichostema lanceolatum |
| X Chlorogalum parviflorum | Linaria canadensis | X Trifolium |
| X Clarkia purpurea | X Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Melilotus</u> |
| X Cotula coronopifolia | Lotus strigosus | |
| X Crassula aquatica | X Lupinus bicolor | <u>Rumex crispus</u> |
| X Crassula erecta | X Lythrum hyssopifolia | |
| X Cryptantha intermedia | Marsilea vestita | <u>Anagallis arvensis</u> |
| X Deschampsia danthonioides | Micropus californicus | |
| X Dichelostemma pulchellum | X Microseris douglasii | <u>Galium angustifolium</u> |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Mulla clevelandii | <u>Lonicera subspicata</u> |
| X Downingia cuspidata | X Mulla maritima | |
| X Elatine brachysperma | X Myosurus minimus filiformis | <u>Quercus dumosa</u> |
| Eleocharis acicularis | Navarretia atractyloides | <u>Eriodictyon</u> |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | X Navarretia hamata | <u>Xylococcus bicolor</u> |
| Eremocarpus setigerus | X Ophioglossum californicum | <u>Ceanothus greggii</u> |
| X Eriogonum fasciculatum | Orcuttia californica | <u>Mimulus</u> |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.

Compiled by E. Bauder, Feb. 1986

Location Miramar Industrial Date 1986 Data by CRS, CCPNotes Ford Metal Company Pool Number 168⁺

Achillea millefolium	Eriophyllum confertiflorum	X Orthocarpus purpurascens
Adenostoma fasciculatum	X Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	X Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	X Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
X Anagallis minimus	X Filago arizonica	X Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastriidium ventricosum	X Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	X Gnaphalium palustre	X Polypogon monospeliensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	X Hedypnois cretica	Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	X Holocarpha virgata	Rhus laurina
X Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	X Hypochaeris glabra	Sanicula bipinnatifida
X Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	X Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	X Juncus rugulosus	X Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
X Calycadenia tenella	Juncus triformis	X Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
X Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	X Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
X Clarkia purpurea	X Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	Lotus scoparius	
X Cotula coronopifolia	Lotus strigosus	
X Crassula aquatica	X Lupinus bicolor	
X Crassula erecta	X Lythrum hyssopifolia	
Cryptantha intermedia	Marsilea vestita	
X Deschampsia danthonioides	Micropus californicus	
Dichelostemma pulchellum	X Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	X Muilla clevelandii	
X Downingia cuspidata	X Muilla maritima	
X Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	X Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
X Eriogonum fasciculatum	Orcuttia californica	

Camissonia sp.Eriastrum sapphirinumLotus salsuginesusSidalcea malveflora

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.

Compiled by E. Bauder, Feb. 1986

Location Miramar Industrial Date 1986 Data by CRS, CCPNotes Facilities Development Pool Number I6 C+

- | | | |
|-----------------------------|----------------------------|-------------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| x Adenostoma fasciculatum | x Erodium botrys | Phalaris lemmonii |
| Adolphia californica | x Erodium cicutarium | x Pilularia americana |
| Agrostis | x Eryngium aristulatum | Pityrogramma triangularis |
| ✓ Allium haematochiton | ✓ Eschscholzia californica | x Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| x Anagallis minimus | x Filago arizonica | x Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | x Gastridium ventricosum | x Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | x Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | x Psilocarphus brevissimus |
| x Avena barbata | ✓ Hedyphois cretica | x Psilocarphus tenellus |
| Avena fatua | ✓ Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | x Holocarpha virgata | x Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | ✓ Hypochoeris glabra | Sanicula bipinnatifida |
| x Brodiaea orcuttii | ✓ Isoetes howellii | Scrophularia californica |
| Bromus diandrus | x Isoetes orcuttii | Scutellaria tuberosa |
| x Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| ✓ Bromus rubens | x Juncus bufonius | Sibara virginica |
| x Calandrinia ciliata | Juncus rugulosus | ✓ Silene gallica |
| ✓ Callitriche marginata | Juncus sphaerocarpus | x Sisyrinchium bellum |
| ✓ Calycadenia tenella | Juncus triformis | ✓ Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | ✓ Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| x Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| ✓ Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | x Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | x Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | x Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | x Lotus scoparius | <u>Camissonia sp.</u> |
| x Cotula coronopifolia | Lotus strigosus | <u>Lotus salsuginosus</u> |
| x Crassula aquatica | x Lupinus bicolor | <u>Helianthemum scoparium</u> |
| ✓ Crassula erecta | ✓ Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | |
| x Deschampsia danthonioides | Micropus californicus | |
| x Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| ✓ Dodecatheon clevelandii | x Muilla clevelandii | |
| x Downingia cuspidata | Muilla maritima | |
| x Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| ✓ Eleocharis macrostachya | x Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| ✓ Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.

Compiled by E. Bauder, Feb. 1986

Location Miramar Industrial Date 4-15-86 Data by CAS, ETBNotes _____ Pool Number I 7

- | | | |
|-----------------------------|----------------------------|-------------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | X Phalaris lemmonii |
| Adolphia californica | X Erodium cicutarium | X Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus |
| X Anagallis minimus | Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | X Gastridium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | X Polypogon monspeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| X Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | X Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| X Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | X Isoetes howellii | Scrophularia californica |
| X Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | X Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| X Calochortus splendens | Lasthenia californica | Spergularia arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | X Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | X Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | <u>Helianthemum scoparium</u> |
| Cordylanthus | X Lotus scoparius | <u>Rumex crispus</u> |
| X Cotula coronopifolia | Lotus strigosus | _____ |
| X Crassula aquatica | X Lupinus bicolor | _____ |
| Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| X Deschampsia danthonioides | Micropus californicus | _____ |
| Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | Muilla clevelandii | _____ |
| X Downingia cuspidata | X Muilla maritima | _____ |
| Elatine brachysperma | Myosurus minimus | _____ |
| Eleocharis acicularis | Navarretia atractyloides | _____ |
| Eleocharis bella | Navarretia prostrata | _____ |
| X Eleocharis macrostachya | X Navarretia hamata | _____ |
| Eremocarpus setigerus | Ophioglossum californicum | _____ |
| X Eriogonum fasciculatum | Orcuttia californica | _____ |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.

Compiled by E. Bauder, Feb. 1986

Location Miramar Industrial Date 7-9-86 Data by CRSNotes _____ Pool Number I 11*

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	x Polypogon monospeliensis
Artemisia californica	Haplopappus venetus	Psilocarphus brevissimus
x Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	x Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
x Bromus mollis	Jepsonia parryi	Selaginella cinerascens
x Bromus rubens	x Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergularia arvensis
Camissonia cistorta	Lasthenia chrysostoma	x Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	Stipa lepidia
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	x Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	Lotus scoparius	<u>Baccharis pilularis</u>
Cotula coronopifolia	Lotus strigosus	<u>Salsola iberica</u>
Crassula aquatica	Lupinus bicolor	<u>Lamarckia aurea</u>
Crassula erecta	x Lythrum hyssopifolia	
Cryptantha intermedia	Marsilea vestita	
Deschampsia danthonioides	Micropus californicus	
Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Miramar Industrial Date 7-9-86 Data by CRS

Notes _____ Pool Number I 13⁺

- | | | |
|-----------------------------|----------------------------|------------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| Adenostoma fasciculatum | Erodium botrys | x Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| x Anagallis minimus | Filago arizonica | x Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | x Gastridium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | x Polypogon monospeliensis |
| y Artemisia californica | Haplopappus venetus | x Psilocarphus brevissimus |
| x Avena barbata | Hedypnois cretica | x Psilocarphus tenellus |
| Avena fatua | x Hemizonia fasciculata | Pterostegia drymaricoides |
| x Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | x Holocarpha virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | y Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| x Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| Bromus rubens | x Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| x Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergularia arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | x Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | x Stipa pulchra |
| Centaureium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | x Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | Vulpia myuros |
| Conyza canadensis | Lotus hamatus | <u>Rumex crispus</u> |
| Cordylanthus | Lotus scoparius | <u>Corythogyne</u> |
| Cotula coronopifolia | Lotus strigosus | <u>Galearia crystallinum</u> |
| x Crassula aquatica | Lupinus bicolor | <u>Atriplex</u> |
| Crassula erecta | x Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | |
| x Deschampsia danthonioides | Micropus californicus | |
| Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Muilla clevelandii | |
| Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| y Eleocharis macrostachya | Navarretia hamata | |
| x Eremocarpus setigerus | Ophioglossum californicum | |
| x Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-14-86 Data by CRS, ETB, TC

Notes _____ Pool Number J 1

Achillea millefolium
 Allium haematochiton
 Allium praecox
 x Anagallis minimus
 Amaranthus albus
 Artemisia californica
 Atriplex semibaccata
 x Avena fatua
 Bloomeria crocea
 Boissduvalia glabella
 Brodiaea jolonensis
 x Bromus mollis
 x Bromus rubens
 Callitriche marginata
 Calochortus splendens
 Calycadenia tenella
 Calystegia spp.
 Castilleja affinis
 Centaurea cf. melitensis
 Centaurium venustum
 Chaenactis glabriuscula
 Chlorogalum parviflorum
 Chlorogalum pomeridianum
 Corethrogyne filagrin.
 Cotula
 x Crassula aquatica
 Crassula erecta
 Cressa truxillensis
 Cryptantha intermedia
 Cuscuta spp.
 x Deschampsia danthonioides
 Dichelostemma pulchella
 Dodecatheon clevelandii
 Dudleya variegata
 Elatine brachysperma
 Eleocharis spp.
 Encelia californica
 Eriogonum fasciculatum
 Eriophyllum confertiflorum
 x Erodium cicutarium
 x Eryngium aristulatum
 Ferocactus viridescens
 x Filago arizonica
 Galium angustifolium
 Gasoual crystallinum
 Gnaphalium spp.
 Grindelia robusta
 Haplopappus venetus
 H. venetus ssp furturaceus
 x Hemizonia fasciculata
 Heteromeles arbutifolia

Holocarpha virgata
 x Hordeum jubatum
 x Hypochaeris glabra
 Isoetes orcuttii
 Isomeris arborea
 Jepsonia parryi
 x Lamarckia aurea
 Lasthenia chrysostoma
 Lepidium nitidum
 Lilaea scilloides
 Linanthus dianthiflorus
 Linanthus liniflorus
 x Lolium perenne
 Lomatium dasycarpum
 x Lotus scoparius
 Lycium californicum
 Mammillaria dioica
 Marsilea vestita
 Melica imperfecta
 Muilla clevelandii
 Muilla maritima
 Myosurus min. var apus
 x Navarretia fossalis
 x Navarretia hamata
 Orcuttia californica
 x Orthocarpus purpurascens
 Opuntia littoralis
 Opuntia prolifera
 Oxalis alb. californica
 Pityrogramma triangularis
 x Plagiobothrys tenellus
 Pogogyne nudiuscula
 x Psilocarphus brevissimus
 x Psilocarphus tenellus
 Salvia apiana
 Selaginella bigelovii
 Selaginella cinerascens
 Sanicula bipinnatifida
 Sanicula crassicaulis
 Sidalcea malvaeflora
 x Sisyrinchium bellum
 Sonchus
 Stipa cernua
 Stipa cf. lepida
 Viguiera laciniata
 Vulpia octoflora
 Zigadenus fremontii

Brassica nigra
Lotus hornatus
Lythrum hyssopifolia
Phalaris lemmanii
Silene gallica
Spergularia bocconii
Vulpia myuros
Anagallis arvensis

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-14-86 Data by CRS, ETB, TC

Notes _____ Pool Number J 2 S+

- | | |
|-----------------------------|----------------------------|
| Achillea millefolium | Holocarpha virgata |
| Allium haematochiton | x Hordeum jubatum |
| Allium praecox | x Hypochoeris glabra |
| x Anagallis minimus | Isoetes orcuttii |
| Amaranthus albus | x Isomeris arborea |
| x Artemisia californica | Jepsonia parryi |
| Atriplex semibaccata | x Lamarckia aurea |
| x Avena fatua | Lasthenia chrysostoma |
| Bloomeria crocea | Lepidium nitidum |
| Boisduvalia glabella | x Lilaea scilloides |
| Brodiaea jolonensis | Linanthus dianthiflorus |
| x Bromus mollis | Linanthus liniflorus |
| x Bromus rubens | x Lolium perenne |
| x Callitriche marginata | Lomatium dasycarpum |
| Calochortus splendens | Lotus scoparius |
| x Calycadenia tenella | Lycium californicum |
| Calystegia spp. | Mammillaria dioica |
| Castilleja affinis | Marsilea vestita |
| x Centaurea cf. melitensis | Melica imperfecta |
| Centaurium venustum | Mulla clevelandii |
| Chaenactis glabriuscula | Mulla maritima |
| x Chlorogalum parviflorum | Myosurus min. var apus |
| Chlorogalum pomeridianum | x Navarretia fossalis |
| Corethrogyne filagin. | x Navarretia hamata |
| Cotula | Orcuttia californica |
| x Crassula aquatica | x Orthocarpus purpurascens |
| x Crassula erecta | Opuntia littoralis |
| Cressa truxillensis | Opuntia prolifera |
| Cryptantha intermedia | Oxalis alb. californica |
| Cuscuta spp. | Pityrogramma triangularis |
| x Deschampsia danthonioides | x Plagiobothrys tenellus |
| Dichelostemma pulchella | Pogogyne nudiuscula |
| Dodecatheon clevelandii | x Psilocarphus brevissimus |
| Dudleya variegata | γ Psilocarphus tenellus |
| Elatine brachysperma | Salvia apiana |
| x Eleocharis spp. | Selaginella bigelovii |
| Encelia californica | Selaginella cinerascens |
| Eriogonum fasciculatum | Sanicula bipinnatifida |
| Eriophyllum confertiflorum | Sanicula crassicaulis |
| x Erodium cicutarium | Sidalcea malvaeflora |
| x Eryngium aristulatum | x Sisyrinchium bellum |
| Ferocactus viridescens | Sonchus |
| x Filago arizonica | γ Stipa cernua |
| Galium angustifolium | Stipa cf. lepida |
| Gasoual crystallinum | x Viguiera laciniata |
| Gnaphalium spp. | Vulpia octoflora |
| Grindelia robusta | Zigadenus fremontii |
| x Haplopappus venetus | |
| H. venetus ssp furturaceus | |
| x Hemizonia fasciculata | |
| Heteromeles arbutifolia | |

Juncus bufonius
Lasthenia glabrata
Stylocline gna.
Plantago bigelovii
Polypogon monspeli.
Silene gallica
Stipa lepida
Vulpia myuros

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-14-86 Data by CAS, ETB, TC

Notes _____ Pool Number J 3⁺

- | | |
|-----------------------------|----------------------------|
| Achillea millefolium | Holocarpha virgata |
| Allium haematociton | X Hordeum jubatum |
| Allium praecox | X Hypochoeris glabra |
| Anagallis minimus | Isoetes orcuttii |
| Amaranthus albus | Isomeris arborea |
| Artemisia californica | Jepsonia parryi |
| X Atriplex semibaccata | Lamarckia aurea |
| Avena fatua | Lasthenia chrysostoma |
| Bloomeria crocea | X Lepidium nitidum |
| X Boissduvalia glabella | X Lilaea scilloides |
| X Brodiaea jolonensis | Linanthus dianthiflorus |
| X Bromus mollis | Linanthus liniflorus |
| X Bromus rubens | X Lolium perenne |
| X Callitriche marginata | Lomatium dasycarpum |
| Calochortus splendens | Lotus scoparius |
| Calycadenia tenella | Lycium californicum |
| Calystegia spp. | Mammillaria dioica |
| Castilleja affinis | Marsilea vestita |
| X Centaurea cf. melitensis | Melica imperfecta |
| Centaureum venustum | Muilla clevelandii |
| Chaenactis glabriuscula | Muilla maritima |
| Chlorogalum parviflorum | Myosurus min. var apus |
| Chlorogalum pomeridianum | X Navarretia fossalis? |
| Corethrogyne filagin. | Navarretia hamata |
| Cotula | Orcuttia californica |
| X Crassula aquatica | Orthocarpus purpurascens |
| Crassula erecta | Opuntia littoralis |
| Cressa truxillensis | Opuntia prolifera |
| Cryptantha intermedia | Oxalis alb. californica |
| Cuscuta spp. | Pityrogramma triangularis |
| Deschampsia danthonioides | X Plagiobothrys tenellus |
| Dichelostemma pulchella | Pogogyne nudiuscula |
| Dodecatheon clevelandii | X Psilocarphus brevissimus |
| Oudleya variegata | Psilocarphus tenellus |
| Y Elatine brachysperma | Salvia apiana |
| X Eleocharis spp. | Selaginella bigelovii |
| Encelia californica | Selaginella cinerascens |
| Eriogonum fasciculatum | Sanicula bipinnatifida |
| Eriophyllum confertiflorum | Sanicula crassicaulis |
| Erodium cicutarium | Sidalcea malvaeflora |
| Eryngium aristulatum | X Sisyrinchium bellum |
| Ferocactus viridescens | Sonchus |
| X Filago arizonica | Stipa cernua |
| Galium angustifolium | Stipa cf. lepida |
| Gasoual crystallinum | Viguiera laciniata |
| Gnaphalium spp. | Vulpia octoflora |
| Grindelia robusta | Zigadenus fremontii |
| Haplopappus venetus | |
| H. venetus ssp. furturaceus | |
| Hemizonia fasciculata | |
| Heteromeles arbutifolia | |

Pilularia amer.

Rumex crispus

Juncus bufonius

Lythrum hyssop

Spergularia

Lotus hamatus

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-14-86 Data by CRS, ETB, TC

Notes _____ Pool Number J4

- | | |
|-----------------------------|----------------------------|
| Achillea millefolium | Holocarpa virgata |
| Allium haematociton | Hordeum jubatum |
| Allium praecox | x Hypochoeris glabra |
| Anagallis minimus | Isoetes orcuttii |
| Amaranthus albus | Isomeris arborea |
| x Artemisia californica | Jepsonia parryi |
| Atriplex semibaccata | x Lamarckia aurea |
| Avena fatua | Lasthenia chrysostoma |
| Bloomeria crocea | Lepidium nitidum |
| Boisduvalia glabella | Lilaea scilloides |
| Brodiaea jolonensis | x Linanthus dianthiflorus |
| Bromus mollis | Linanthus liniflorus |
| x Bromus rubens | Lolium perenne |
| Callitriche marginata | Lomatium dasycarpum |
| Calochortus splendens | Lotus scoparius |
| Calycadenia tenella | Lycium californicum |
| Calystegia spp. | Mammillaria dioica |
| Castilleja affinis | Marsilea vestita |
| x Centaurea cf. melitensis | Melica imperfecta |
| Centaureum venustum | Muilla clevelandii |
| Chaenactis glabriuscula | Muilla maritima |
| x Chlorogalum parviflorum | Myosurus min. var apus |
| Chlorogalum pomeridianum | Navarretia fossalis |
| Corethrogyne filagrin. | Navarretia hamata |
| Cotula | Orcuttia californica |
| Crassula aquatica | x Orthocarpus purpurascens |
| Crassula erecta | Opuntia littoralis |
| Cressa truxillensis | Opuntia prolifera |
| Cryptantha intermedia | Oxalis alb. californica |
| Cuscuta spp. | Pityrogramma triangularis |
| x Deschampsia danthonioides | Plagiobothrys tenellus |
| Dichelostemma pulchella | Pogogyne nudiuscula |
| Dodecatheon clevelandii | x Psilocarphus brevissimus |
| Dudleya variegata | Psilocarphus tenellus |
| Elatine brachysperma | Salvia apiana |
| Eleocharis spp. | Selaginella bigelovii |
| Encelia californica | Selaginella cinerascens |
| x Eriogonum fasciculatum | Sanicula bipinnatifida |
| Eriophyllum confertiflorum | Sanicula crassicaulis |
| x Erodium cicutarium | Sidalcea malvaeflora |
| Eryngium aristulatum | x Sisyrinchium bellum |
| x Ferocactus viridescens | Sonchus |
| x Filago arizonica | Stipa cernua |
| Galium angustifolium | x Stipa cf. lepida |
| Gasoual crystallinum | Viguiera laciniata |
| Gnaphalium spp. | Vulpia octoflora |
| Grindelia robusta | Zigadenus fremontii |
| Haplopappus venetus | |
| H. venetus ssp furfuraceus | |
| x Hemizonia fasciculata | |
| Heteromeles arbutifolia | |

Lasthenia glabrata
Stipa pulchra
Vulpia myuros
Mirabilis californica

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
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 E. Bauder, 1985

Location Otay Mesa Date 4-14-86 Data by CRS, ETB, TC

Notes _____ Pool Number J5

Achillea millefolium
 Allium haematochiton
 Allium praecox
 Anagallis minimus
 Amaranthus albus
 x Artemisia californica
 Atriplex semibaccata
 x Avena fatua
 Bloomeria crocea
 x Boissduvalia glabella
 Brodiaea jolonensis
 x Bromus mollis
 x Bromus rubens
 x Callitriche marginata
 x Calochortus splendens
 Calycadenia tenella
 Calystegia spp.
 Castilleja affinis
 x Centaurea cf. melitensis
 Centaurium venustum
 Chaenactis glabriuscula
 x Chlorogalum parviflorum
 Chlorogalum pomeridianum
 Corethrogyne filagrin.
 Cotula
 x Crassula aquatica
 x Crassula erecta
 Cressa truxillensis
 Cryptantha intermedia
 Cuscuta spp.
 x Deschampsia danthonioides
 Dichelostemma pulchella
 Dodecatheon clevelandii
 Dudleya variegata
 x Elatine brachysperma
 x Eleocharis spp.
 Encelia californica
 Eriogonum fasciculatum
 Eriophyllum confertiflorum
 x Erodium cicutarium
 x Eryngium aristulatum
 x Ferocactus viridescens
 x Filago arizonica
 Galium angustifolium
 Gasoual crystallinum
 Gnaphalium spp.
 Grindelia robusta
 x Haplopappus venetus
 H. venetus ssp. furturaceus
 x Hemizonia fasciculata
 Heteromeles arbutifolia

Holocarpha virgata
 Hordeum jubatum
 x Hypochaeris glabra
 Isoetes orcuttii
 x Isomeris arborea
 Jepsonia parryi
 Lamarckia aurea
 Lasthenia chrysostoma
 Lepidium nitidum
 x Lilaea scilloides
 x Linanthus dianthiflorus
 Linanthus liniflorus
 Lolium perenne
 Lomatium dasycarpum
 Lotus scoparius
 Lycium californicum
 Mammillaria dioica
 Marsilea vestita
 Melica imperfecta
 Mulla clevelandii
 Mulla maritima
 x Myosurus min. var. apus
 x Navarretia fossalis
 Navarretia hamata
 Orcuttia californica
 Orthocarpus purpurascens
 x Opuntia littoralis
 Opuntia prolifera
 Oxalis alb. californica
 Pityrogramma triangularis
 Plagiobothrys tenellus
 Pogogyne nudiuscula
 x Psilocarphus brevissimus
 Psilocarphus tenellus
 Salvia apiana
 Selaginella bigelovii
 Selaginella cinerascens
 Sanicula bipinnatifida
 Sanicula crassicaulis
 Sidalcea malvaeflora
 x Sisyrinchium bellum
 x Sonchus
 Stipa cernua
 x Stipa cf. lepida
 Vigiera laciniata
 Vulpia octoflora
 Zigadenus fremontii

Brassica nigra
Calandrinia cil.
Dichandra occi.
Lasthenia glabrata
Lythrum hyssop.
Stylocline gnaph.
Phalaris lemmonii
Polypogon mon.
Spergula arvensis
Vulpia myuros
Mirabilis cal.
Simmondsia
Anagallis an.

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
Compiled by T. Oberbauer, 1975 and 1977
E. Bauder, 1985

Location Otay Mesa Date 4/29/85 Data by ETB et al. (1985)
4/30 & 6/9/86 J. Vanderwier (1986)
Notes J 11 pools in 1979 report. Pool Number J 11 E+

Achillea millefolium
Allium haematochiton
Allium praecox
Anagallis minimus
Amaranthus albus
Artemisia californica
Atriplex semibaccata
Avena fatua
Bloomeria crocea
Boisduvalia glabella
Brodiaea jolonensis
Bromus mollis
Bromus rubens
Callitriche marginata
Calochortus splendens
Calycadenia tenella
Calystegia spp.
Castilleja affinis
Centaurea cf. melitensis
Centaureum venustum
Chaenactis glabriuscula
Chlorogalum parviflorum
Chlorogalum pomeridianum
Corethrogyne filagin.
Cotula
Crassula aquatica
Crassula erecta
Cressa truxillensis
Cryptantha intermedia
Cuscuta spp.
Deschampsia danthonioides
Dichelostemma pulchella
Dodecatheon clevelandii
Dudleya variegata
Elatine brachysperma
✓ Eleocharis spp.
Encelia californica
Eriogonum fasciculatum
Eriophyllum confertiflorum
Erodium cicutarium
Eryngium aristulatum
Ferocactus viridescens
Filago arizonica
Galium angustifolium
Gasoual crystallinum
Gnaphalium spp.
Grindelia robusta
Haplopappus venetus
H. venetus ssp. furturaceus
Hemizonia fasciculata
Heteromeles arbutifolia

Holocarpha virgata
Hordeum jubatum
Hypochoeris glabra
Isoetes orcuttii
Isomeris arborea
Jepsonia parryi
Lamarckia aurea
Lasthenia chrysostoma
Lepidium nitidum
x Lilaea scilloides
Linanthus dianthiflorus
Linanthus liniflorus
Lolium perenne
Lomatium dasycarpum
Lotus scoparius
Lycium californicum
Mammillaria dioica
Marsilea vestita
Melica imperfecta
Muilla clevelandii
Muilla maritima
Myosurus min. var. apus
Navarretia fossalis
Navarretia hamata
x Orcuttia californica
Orthocarpus purpurascens
Opuntia littoralis
Opuntia prolifera
Oxalis alb. californica
Pityrogramma triangularis
Plagiobothrys tenellus
Pogogyne nudiuscula
Psilocarphus brevissimus
Psilocarphus tenellus
Salvia apiana
Selaginella bigelovii
Selaginella cinerascens
Sanicula bipinnatifida
Sanicula crassicaulis
Sidalcea malvaeflora
Sisyrinchium bellum
Sonchus
Stipa cernua
Stipa cf. lepida
Viguiera laciniata
Vulpia octoflora
Zigadenus fremontii

Azolla filiculoides

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
Compiled by T. Oberbauer, 1975 and 1977
E. Bauder, 1985

Location Otay Mesa Date 4/30 & 6/9/86 Data by J. Vanderwier
4/29/85 ETB, TG et al.
Notes _____ Pool Number J 11 W^r

Achillea millefolium	Holocarpha virgata
Allium haematochiton	Hordeum jubatum
Allium praecox	Hypochoeris glabra
x Anagallis minimus	Isoetes orcuttii
Amaranthus albus	Isomeris arborea
Artemisia californica	Jepsonia parryi
Atriplex semibaccata	Lamarckia aurea
Avena fatua	x Lasthenia chrysothoma sp.?
Bloomeria crocea	Lepidium nitidum
Boisduvalia glabella	Lilaea scilloides
Brodiaea jolonensis	Linanthus dianthiflorus
Bromus mollis	Linanthus liniflorus
Bromus rubens	Lolium perenne
x Callitriche marginata	Lomatium dasycarpum
Calochortus splendens	Lotus scoparius
Calycadenia tenella	Lycium californicum
Calystegia spp.	Mammillaria dioica
Castilleja affinis	x Marsilea vestita
Centaurea cf. melitensis	Melica imperfecta
Centaureium venustum	Mulla clevelandii
Chaenactis glabriuscula	Mulla maritima
Chlorogalum parviflorum	x Myosurus min. var apus
Chlorogalum pomeridianum	Navarretia fossalis
Corethrogyne filagrin.	Navarretia hamata
Cotula	Orcuttia californica
x Crassula aquatica	Orthocarpus purpurascens
x Crassula erecta	Opuntia littoralis
Cressa truxillensis	Opuntia prolifera
Cryptantha intermedia	Oxalis alb. californica
Cuscuta spp.	Pityrogramma triangularis
x Deschampsia danthonioides	Plagiobothrys tenellus
Dichelostemma pulchella	Pogogyne nudiuscula
Dodecatheon clevelandii	x Psilocarphus brevissimus
Dudleya variegata	Psilocarphus tenellus
x Elatine brachysperma	Salvia apiana
x Eleocharis spp.	Selaginella bigelovii
Encelia californica	Selaginella cinerascens
Eriogonum fasciculatum	Sanicula bipinnatifida
Eriophyllum confertiflorum	Sanicula crassicaulis
Erodium cicutarium	Sidalcea malvaeflora
Eryngium aristulatum	Sisyrinchium bellum
Ferocactus viridescens	Sonchus
Filago arizonica	Stipa cernua
Galium angustifolium	Stipa cf. lepida
Gasoual crystallinum	Viguiera laciniata
Gnaphalium spp.	Vulpia octoflora
Grindelia robusta	Zigadenus fremontii
Haplopappus venetus	
H. venetus ssp furfuraceus	
Hemizonia fasciculata	
Heteromeles arbutifolia	

Juncus bufonius

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4/29/85 Data by ETB et al. (1985)
4/30 & 6/9/86 J Vanderwier (1986)
 Notes Includes former J 31 pool. Pool Number J 12+

- | | | |
|-----------------------------|---------------------------|------------------------|
| Achillea millefolium | Holocarpha virgata | <u>Juncus bufonius</u> |
| Allium haematochiton | Hordeum jubatum | <u>Polygonum mon.</u> |
| Allium praecox | Hypochoeris glabra | <u>Azolla</u> |
| Anagallis minimus | x Isoetes orcuttii | _____ |
| Amaranthus albus | Isomeris arborea | _____ |
| Artemisia californica | Jepsonia parryi | _____ |
| Atriplex semibaccata | Lamarckia aurea | _____ |
| Avena fatua | Lasthenia chrysostoma | _____ |
| Bloomeria crocea | Lepidium nitidum | _____ |
| Boisdouvalia glabella | x Lilaea scilloides | _____ |
| Brodiaea jolonensis | Linanthus dianthiflorus | _____ |
| Bromus mollis | Linanthus liniflorus | _____ |
| Bromus rubens | Lolium perenne | _____ |
| Callitriche marginata | Lomatium dasycarpum | _____ |
| Calochortus splendens | Lotus scoparius | _____ |
| Calycadenia tenella | Lycium californicum | _____ |
| Calystegia spp. | Mammillaria dioica | _____ |
| Castilleja affinis | Marsilea vestita | _____ |
| Centaurea cf. melitensis | Melica imperfecta | _____ |
| Centaureum venustum | Mulla clevelandii | _____ |
| Chaenactis glabruscula | Mulla maritima | _____ |
| Chlorogalum parviflorum | Myosurus min. var apus | _____ |
| Chlorogalum pomeridianum | Navarretia fossalis | _____ |
| Corethrogyne filagrin. | Navarretia hamata | _____ |
| Cotula | x Orcuttia californica | |
| Crassula aquatica | Orthocarpus purpurascens | |
| Crassula erecta | Opuntia littoralis | |
| Cressa truxillensis | Opuntia prolifera | |
| Cryptantha intermedia | Oxalis alb. californica | |
| Cuscuta spp. | Pityrogramma triangularis | |
| Deschampsia danthonioides | Plagiobothrys tenellus | |
| Dichelostemma pulchella | Pogogyne nudiuscula | |
| Dodecatheon clevelandii | Psilocarphus brevissimus | |
| Dudleya variegata | Psilocarphus tenellus | |
| Elatine brachysperma | Salvia apiana | |
| x Eleocharis spp. | Selaginella bigelovii | |
| Encelia californica | Selaginella cinerascens | |
| Eriogonum fasciculatum | Sanicula bipinnatifida | |
| Eriophyllum confertiflorum | Sanicula crassicaulis | |
| Erodium cicutarium | Sidalcea malvaeflora | |
| x Eryngium aristulatum | Sisyrinchium bellum | |
| Ferocactus viridescens | Sonchus | |
| Filago arizonica | Stipa cernua | |
| Galium angustifolium | Stipa cf. lepida | |
| Gasoual crystallinum | Viguiera laciniata | |
| Gnaphalium spp. | Vulpia octoflora | |
| Grindelia robusta | Zigadenus fremontii | |
| Hapiopappus venetus | | |
| H. venetus ssp. furfuraceus | | |
| Hemizonia fasciculata | | |
| Heteromeles arbutifolia | | |

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-14-86 Data by CRS, ETB, TC

Notes _____ Pool Number J135+

Achillea millefolium
 Allium haematochiton
 Allium praecox
 Anagallis minimus
 Amaranthus albus
 Artemisia californica
 Atriplex semibaccata
 x Avena ~~fasciata~~ barbata
 Bloomeria crocea
 x Boisdouvalia glabella
 Brodiaea jolonensis
 y Bromus mollis
 Bromus rubens
 x Callitriche marginata
 Calochortus splendens
 Calycadenia tenella
 Calystegia spp.
 Castilleja affinis
 Centaurea cf. melitensis
 Centaurium venustum
 Chaenactis glabriuscula
 Chlorogalum parviflorum
 Chlorogalum pomeridianum
 Corethrogyne filagin.
 x Cotula
 y Crassula aquatica
 Crassula erecta
 Cressa truxillensis
 Cryptantha intermedia
 Cuscuta spp.
 Deschampsia danthonioides
 Dichelostemma pulchella
 Dodecatheon clevelandii
 Dudleya variegata
 x Elatine brachysperma
 x Eleocharis spp.
 Encelia californica
 Eriogonum fasciculatum
 Eriophyllum confertiflorum
 x Erodium cicutarium
 x Eryngium aristulatum
 Ferocactus viridescens
 Filago arizonica
 Galium angustifolium
 Gasoual crystallinum
 Gnaphalium spp.
 Grindelia robusta
 Haplopappus venetus
 H. venetus ssp. furturaceus
 x Hemizonia fasciculata
 Heteromeles arbutifolia

Holocarpha virgata
 x Hordeum jubatum
 Hypochoeris glabra
 Isoetes orcuttii
 Isomeris arborea
 Jepsonia parryi
 x Lamarckia aurea
 Lasthenia chrysostoma
 Lepidium nitidum
 x Lilaea scilloides
 Linanthus dianthiflorus
 Linanthus liniflorus
 x Lolium perenne
 Lomatium dasycarpum
 Lotus scoparius
 Lycium californicum
 Mammillaria dioica
 Marsilea vestita
 Melica imperfecta
 Muilla clevelandii
 Muilla maritima
 x Myosurus min. var. ^{filiformis?} ~~apus~~
 y Navarretia fossalis
 Navarretia hamata
 Orcuttia californica
 x Orthocarpus purpurascens
 Opuntia littoralis
 Opuntia prolifera
 Oxalis alb. californica
 Pityrogramma triangularis
 x Plagiobothrys tenellus
 Pogogyne nudiuscula
 x Psilocarphus brevissimus
 Psilocarphus tenellus
 Salvia apiana
 Selaginella bigelovii
 Selaginella cinerascens
 Sanicula bipinnatifida
 Sanicula crassicaulis
 Sidalcea malvaeflora
 Sisyrinchium bellum
 Sonchus
 Stipa cernua
 Stipa cf. lepida
 Viguiera laciniata
 Vulpia octoflora
 Zigadenus fremontii

Juncus bufonius
Lythrum hyssop.
Phalaris lemmonii
Pilularia amer.
Polygonum man.
Silene gallica
Trifolium
Anagallis arven.
Azolla
Polygonum

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-14-86 Data by ETB, CRS, TC

Notes _____ Pool Number J13N+

Achillea millefolium
 Allium haematochiton
 Allium praecox
 Anagallis minimus
 Amaranthus albus
 Artemisia californica
 Atriplex semibaccata
 x Avena fatua
 Bloomeria crocea
 x Boissduvalia glabella
 Brodiaea jolonensis
 x Bromus mollis
 Bromus rubens
 x Callitriche marginata
 Calochortus splendens
 Calycadenia tenella
 Calystegia spp.
 Castilleja affinis
 Centaurea cf. melitensis
 Centaurium venustum
 Chaenactis glabriuscula
 Chlorogalum parviflorum
 Chlorogalum pomeridianum
 Corethrogyne filagrin.
 Cotula
 x Crassula aquatica
 Crassula erecta
 Cressa truxillensis
 Cryptantha intermedia
 Cuscuta spp.
 x Deschampsia danthonioides
 Dichelostemma pulchella
 Dodecatheon clevelandii
 Dudleya variegata
 x Elatine brachysperma
 x Eleocharis spp.
 Encelia californica
 Eriogonum fasciculatum
 Eriophyllum confertiflorum
 Erodium cicutarium
 x Eryngium aristulatum
 Ferocactus viridescens
 Filago arizonica
 Galium angustifolium
 Gasoual crystallinum
 Gnaphalium spp.
 Grindelia robusta
 Haplopappus venetus
 H. venetus ssp. furturaceus
 x Hemizonia fasciculata
 Heteromeles arbutifolia

Holocarpha virgata
 x Hordeum jubatum
 x Hypochaeris glabra
 Isoetes orcuttii
 Isomeris arborea
 Jepsonia parryi
 x Lamacckia aurea
 Lasthenia chrysostoma
 Lepidium nitidum
 x Lilaea scilloides
 Linanthus dianthiflorus
 Linanthus liniflorus
 x Lolium perenne
 Lomatium dasycarpum
 Lotus scoparius
 Lycium californicum
 Mammillaria dioica
 Marsilea vestita
 Melica imperfecta
 Mulla clevelandii
 Mulla maritima filiformis?
 x Myosurus min. var. apus?
 x Navarretia fossalis
 Navarretia hamata
 x Orcuttia californica
 Orthocarpus purpurascens
 Opuntia littoralis
 Opuntia prolifera
 Oxalis alb. californica
 Pityrogramma triangularis
 x Plagiobothrys tenellus
 Pogogyne nudiuscula
 x Psilocarphus brevissimus
 Psilocarphus tenellus
 Salvia apiana
 Selaginella bigelovii
 Selaginella cinerascens
 Sanicula bipinnatifida
 Sanicula crassicaulis
 Sidalcea malvaeflora
 x Sisyrinchium bellum
 Sonchus
 Stipa cernua
 Stipa cf. lepida
 Viguiera laciniata
 Vulpia octoflora
 Zigadenus fremontii

Erodium botrys
Juncus bufonius
Lasthenia glabrata
Lythrum hyssop
Microseris doug.
Phalaris lemmonii
Pitularia amer.
Trifolium
Sidalcea mal.
Anagallis arven.
Matricaria mat.

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-14-86 Data by CRS, ETB, TC

Notes _____ Pool Number J 14

Achillea millefolium
 Allium haematochiton
 Allium praecox
 Anagallis minimus
 Amaranthus albus
 x Artemisia californica
 x Atriplex semibaccata
 x Avena fatua
 Bloomeria crocea
 x Boissduvalia glabella
 Brodiaea jolonensis
 y Bromus mollis
 x Bromus rubens
 Callitriche marginata
 Calochortus splendens
 x Calycadenia tenella
 Calystegia spp.
 Castilleja affinis
 x Centaurea cf. melitensis
 Centaurium venustum
 Chaenactis glabriuscula
 Chlorogalum parviflorum
 Chlorogalum pomeridianum
 Corethrogyne filagin.
 x Cotula
 x Crassula aquatica
 Crassula erecta
 Cressa truxillensis
 Cryptantha intermedia
 Cuscuta spp.
 Deschampsia danthonioides
 Dichelostemma pulchella
 Dodecatheon clevelandii
 Dudleya variegata
 Elatine brachysperma
 x Eleocharis spp.
 Encella californica
 Eriogonum fasciculatum
 Eriophyllum confertiflorum
 Erodium cicutarium
 Eryngium aristulatum
 Ferocactus viridescens
 x Filago arizonica
 Galium angustifolium
 x Gasoual crystallinum
 Gnaphalium spp.
 Grindelia robusta
 Haplopappus venetus
 H. venetus ssp furturaceus
 x Hemizonia fasciculata
 Heteromeles arbutifolia

Holocarpha virgata
 x Hordeum jubatum
 x Hypochaeris glabra
 Isoetes orcuttii
 Isomeris arborea
 Jepsonia parryi
 x Lamarckia aurea
 Lasthenia chrysostoma
 x Lepidium nitidum
 x Lilaea scilloides
 Linanthus dianthiflorus
 Linanthus liniflorus
 Lolium perenne
 Lomatium dasycarpum
 x Lotus scoparius
 Lycium californicum
 Mammillaria dioica
 Marsilea vestita
 Melica imperfecta
 Mulla clevelandii
 Mulla maritima
 Myosurus min. var apus
 Navarretia fossalis
 Navarretia hamata
 Orcuttia californica
 Orthocarpus purpurascens
 Opuntia littoralis
 Opuntia prolifera
 Oxalis alb. californica
 Pityrogramma triangularis
 x Plagiobothrys tenellus
 x Pogogyne nudiuscula
 x Psilocarphus brevissimus
 Psilocarphus tenellus
 Salvia apiana
 Selaginella bigelovii
 Selaginella cinerascens
 Sanicula bipinnatifida
 Sanicula crassicaulis
 Sidalcea malvaeflora
 Sisyrinchium bellum
 Sonchus
 Stipa cernua
 Stipa cf. lepida
 Vigiera laciniata
 Vulpia octoflora
 Zigadenus fremontii

Brassica nigra

Calandrinia cil.

Stylocline graph.

Silene gallica

Vulpia myuros

Lotus sp.

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 2/7 & 2/14/86 Data by J Vanderwier

Notes _____ Pool Number J15

Achillea millefolium	Holocarpha virgata
Allium haematochiton	Hordeum jubatum
Allium praecox	Hypochoeris glabra
Anagallis minimus	Isoetes orcuttii
Amaranthus albus	Isomeris arborea
Artemisia californica	Jepsonia parryi
Atriplex semibaccata	X Lamarckia aurea
Avena fatua	Lasthenia chrysostoma
Bloomeria crocea	X Lepidium nitidum?
Boisduvalia glabella	Lilaea scilloides
Brodiaea joionensis	X Linanthus dianthiflorus
Bromus mollis	Linanthus liniflorus
Bromus rubens	Lolium perenne
Callitriche marginata	Lomatium dasycarpum
Calochortus splendens	Lotus scoparius
Calycadenia tenella	Lycium californicum
Calystegia spp.	Mammillaria dioica
Castilleja affinis	Marsilea vestita
Centaurea cf. mellitensis	Melica imperfecta
Centaureum venustum	Mulla clevelandii
Chaenactis glabriuscula	Mulla maritima
Chlorogalum parviflorum	Myosurus min. var apus
Chlorogalum pomeridianum	Navarretia fossalis
Corethrogyne filagrin.	Navarretia hamata
Cotula	Orcuttia californica
Crassula aquatica	Orthocarpus purpurascens
Crassula erecta	Opuntia littoralis
Cressa truxillensis	Opuntia prolifera
Cryptantha intermedia	Oxalis alb. californica
Cuscuta spp.	Pityrogramma triangularis
Deschampsia danthonioides X	Plagiobothrys tenellus sp
Dichelostemma pulchella	Pogogyne nudiuscula
Dodecatheon clevelandii	Psilocarphus brevissimus
Dudleya variegata	Psilocarphus tenellus
Elatine brachysperma	Salvia apiana
Eleocharis spp.	Selaginella bigelovii
Encelia californica	Selaginella cinerascens
Eriogonum fasciculatum	Sanicula bipinnatifida
Eriophyllum confertiflorum	Sanicula crassicaulis
X Erodium cicutarium <i>butrys</i>	Sidalcea malvaeflora
X Eryngium aristulatum	X Sisyrinchium bellum
Ferocactus viridescens	Sonchus
Filago arizonica	Stipa cernua
Galium angustifolium	Stipa cf. lepida
Gasoual crystallinum	Viguiera laciniata
Gnaphalium spp.	Vulpia octoflora
Grindelia robusta	X Zigadenus fremontii
Haplopappus venetus	
H. venetus ssp furfuraceus	
Hemizonia fasciculata	
Heteromeles arbutifolia	

Juncus sp.

Lasthenia cal.

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-22-86 Data by ETB, TC
 Notes Recently disced. Pool Number J19

Achillea millefolium
 Allium haematochiton
 Allium praecox
 Anagallis minimus
 Amaranthus albus
 Artemisia californica
 Atriplex semibaccata
 Avena fatua
 Bloomeria crocea
 Boissduvalia glabella
 Brodiaea jolonensis
 Bromus mollis
 Bromus rubens
 Callitriche marginata
 Calochortus splendens
 Calycadenia tenella
 Calystegia spp.
 Castilleja affinis
 Centaurea cf. melitensis
 Centaurium venustum
 Chaenactis glabriuscula
 Chlorogalum parviflorum
 Chlorogalum pomeridianum
 Corethrogyne filagin.
 x Cotula
 Crassula aquatica
 x Crassula erecta
 Cressa truxillensis
 Cryptantha intermedia
 Cuscuta spp.
 Deschampsia danthonioides
 Dichelostemma pulchella
 Dodecatheon clevelandii
 Dudleya variegata
 x Elatine brachysperma
 Eleocharis spp.
 Encelia californica
 Eriogonum fasciculatum
 Eriophyllum confertiflorum
 Erodium cicutarium
 Eryngium aristulatum
 Ferocactus viridescens
 Filago arizonica
 Galium angustifolium
 Gasoual crystallinum
 Gnaphalium spp.
 Grindelia robusta
 Haplopappus venetus
 H. venetus ssp. furturaceus
 Hemizonia fasciculata
 Heteromeles arbutifolia

Holocarpha virgata
 Hordeum jubatum
 Hypochoeris glabra
 Isoetes orcuttii
 Isomeris arborea
 Jepsonia parryi
 Lamarckia aurea
 Lasthenia chrysostoma
 Lepidium nitidum
 Lilaea scilloides
 Linanthus dianthiflorus
 Linanthus liniflorus
 x Lolium perenne
 Lomatium dasycarpum
 Lotus scoparius
 Lycium californicum
 Mammillaria dioica
 Marsilea vestita
 Melica imperfecta
 Muilla clevelandii
 Muilla maritima
 Myosurus min. var apus
 x Navarretia fossalis?
 Navarretia hamata
 Orcuttia californica
 Orthocarpus purpurascens
 Opuntia littoralis
 Opuntia prolifera
 Oxalis alb. californica
 Pityrogramma triangularis
 Plagiobothrys tenellus
 Pogogyne nudiuscula
 Psilocarphus brevissimus
 Psilocarphus tenellus
 Salvia apiana
 Selaginella bigelovii
 Selaginella cinerascens
 Sanicula bipinnatifida
 Sanicula crassicaulis
 Sidalcea malvaeflora
 Sisyrinchium bellum
 Sonchus
 Stipa cernua
 Stipa cf. lepida
 Viguiera laciniata
 Vulpia octoflora
 Zigadenus fremontii

Juncus bufonius

Pilularia amer.

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-22-86 Data by ETB, TC

Notes Recently disced Pool Number J 20

- | | | |
|----------------------------|---------------------------|------------------------|
| Achillea millefolium | Holocarpha virgata | <u>Juncus bufonius</u> |
| Allium haematochiton | Hordeum jubatum | <u>Lythrum hyssop:</u> |
| Allium praecox | Hypochoeris glabra | _____ |
| Anagallis minimus | Isoetes orcuttii | _____ |
| Amaranthus albus | Isomeris arborea | _____ |
| Artemisia californica | Jepsonia parryi | _____ |
| Atriplex semibaccata | Lamarckia aurea | _____ |
| Avena fatua | Lasthenia chrysostoma | _____ |
| Bloomeria crocea | Lepidium nitidum | _____ |
| Boisduvalia glabella | Lilaea scilloides | _____ |
| Brodiaea jolonensis | Linanthus dianthiflorus | _____ |
| Bromus mollis | Linanthus liniflorus | _____ |
| Bromus rubens | X Lolium perenne | _____ |
| Callitriche marginata | Lomatium dasycarpum | _____ |
| Calochortus splendens | Lotus scoparius | _____ |
| Calycadenia tenella | Lycium californicum | _____ |
| Calystegia spp. | Mammillaria dioica | _____ |
| Castilleja affinis | Marsilea vestita | _____ |
| Centaurea cf. melitensis | Melica imperfecta | _____ |
| Centaureum venustum | Muilla clevelandii | _____ |
| Chaenactis glabriuscula | Muilla maritima | _____ |
| Chlorogalum parviflorum | Myosurus min. var apus | _____ |
| Chlorogalum pomeridianum | Navarretia fossalis | _____ |
| Corethrogyne filagrin. | Navarretia hamata | _____ |
| Cotula | Orcuttia californica | _____ |
| Crassula aquatica | Orthocarpus purpurascens | _____ |
| Crassula erecta | Opuntia littoralis | _____ |
| Cressa truxillensis | Opuntia prolifera | _____ |
| Cryptantha intermedia | Oxalis alb. californica | _____ |
| Cuscuta spp. | Pityrogramma triangularis | _____ |
| Deschampsia danthonioides | Plagiobothrys tenellus | _____ |
| Dichelostemma pulchella | Pogogyne nudiuscula | _____ |
| Dodecatheon clevelandii | Psilocarphus brevissimus | _____ |
| Dudleya variegata | Psilocarphus tenellus | _____ |
| Elatine brachysperma | Salvia apiana | _____ |
| X Eleocharis spp. | Selaginella bigelovii | _____ |
| Encelia californica | Selaginella cinerascens | _____ |
| Eriogonum fasciculatum | Sanicula bipinnatifida | _____ |
| Eriophyllum confertiflorum | Sanicula crassicaulis | _____ |
| Erodium cicutarium | Sidalcea malvaeflora | _____ |
| Eryngium aristulatum | Sisyrinchium bellum | _____ |
| Ferocactus viridescens | Sonchus | _____ |
| Filago arizonica | Stipa cernua | _____ |
| Galium angustifolium | Stipa cf. lepida | _____ |
| Gasoual crystallinum | Viguiera laciniata | _____ |
| Gnaphalium spp. | Vulpia octoflora | _____ |
| Grindelia robusta | Zigadenus fremontii | _____ |
| Haplopappus venetus | | |
| H. venetus ssp furturaceus | | |
| Hemizonia fasciculata | | |
| Heteromeles arbutifolia | | |

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-22-86 Data by ETB, TC

Notes _____ Pool Number J 21

- | | | |
|----------------------------|---------------------------|------------------------|
| Achillea millefolium | Holocarpha virgata | <u>Lupinus bicolor</u> |
| Allium haematociton | Hordeum jubatum | <u>Stipa pulchra</u> |
| Allium praecox | Hypochoeris glabra | <u>Scirpus</u> |
| Anagallis minimus | Isoetes orcuttii | _____ |
| Amaranthus albus | Isomeris arborea | _____ |
| X Artemisia californica | Jepsonia parryi | _____ |
| X Atriplex semibaccata | Lamarckia aurea | _____ |
| X Avena fatua | Lasthenia chrysostoma | _____ |
| X Bloomeria crocea | Lepidium nitidum | _____ |
| Boisduvalia glabella | Lilaea scilloides | _____ |
| Brodiaea jolonensis | Linanthus dianthiflorus | _____ |
| Bromus mollis | Linanthus liniflorus | _____ |
| Bromus rubens | X Lolium perenne | _____ |
| Callitriche marginata | Lomatium dasycarpum | _____ |
| X Calochortus splendens | Lotus scoparius | _____ |
| Calycadenia tenella | Lycium californicum | _____ |
| Calystegia spp. | Mammillaria dioica | _____ |
| Castilleja affinis | Marsilea vestita | _____ |
| Centaurea cf. melitensis | Melica imperfecta | _____ |
| Centaureum venustum | Muilla clevelandii | _____ |
| Chaenactis glabriuscula | Muilla maritima | _____ |
| Chlorogalum parviflorum | Myosurus min. var apus | _____ |
| Chlorogalum pomeridianum | Navarretia fossalis | _____ |
| Corethrogyne filagrin. | Navarretia hamata | _____ |
| Cotula | Orcuttia californica | _____ |
| Crassula aquatica | Orthocarpus purpurascens | _____ |
| Crassula erecta | Opuntia littoralis | _____ |
| X Cressa truxillensis | Opuntia prolifera | _____ |
| Cryptantha intermedia | Oxalis alb. californica | _____ |
| Cuscuta spp. | Pityrogramma triangularis | _____ |
| Deschampsia danthonioides | Plagiobothrys tenellus | _____ |
| Dichelostemma pulchella | Pogogyne nudiuscula | _____ |
| Dodecatheon clevelandii | Psilocarphus brevissimus | _____ |
| Dudleya variegata | Psilocarphus tenellus | _____ |
| Elatine brachysperma | Salvia apiana | _____ |
| Eleocharis spp. | Selaginella bigelovii | _____ |
| Encelia californica | Selaginella cinerascens | _____ |
| Eriogonum fasciculatum | Sanicula bipinnatifida | _____ |
| Eriophyllum confertiflorum | Sanicula crassicaulis | _____ |
| Erodium cicutarium | Sidalcea malvaeflora | _____ |
| Eryngium aristulatum | X Sisyrinchium bellum | _____ |
| X Ferocactus viridescens | Sonchus | _____ |
| Filago arizonica | Stipa cernua | _____ |
| Galium angustifolium | Stipa cf. lepida | _____ |
| Gasoual crystallinum | Viguiera laciniata | _____ |
| Gnaphalium spp. | Vulpia octoflora | _____ |
| Grindelia robusta | Zigadenus fremontii | _____ |
| Haplopappus venetus | | |
| H. venetus ssp furturaceus | | |
| X Hemizonia fasciculata | | |
| Heteromeles arbutifolia | | |

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 5-29-86 Data by ETB, DAK

Notes _____ Pool Number J22

- | | |
|-----------------------------|----------------------------|
| Achillea millefolium | Holocarpha virgata |
| Allium haematochiton | Hordeum jubatum |
| Allium praecox | X Hypochoeris glabra |
| X Anagallis minimus | Isoetes orcuttii |
| Amaranthus albus | Isomeris arborea |
| X Artemisia californica | Jepsonia parryi |
| Atriplex semibaccata | Lamarckia aurea |
| X Avena fatua | Lasthenia chrysostoma |
| X Bloomeria crocea | Lepidium nitidum |
| X Boisduvalia glabella | Lilaea scilloides |
| Brodiaea jolonensis | Linanthus dianthiflorus |
| X Bromus mollis | Linanthus liniflorus |
| Bromus rubens | X Lolium perenne |
| Callitriche marginata | Lomatium dasycarpum |
| X Calochortus splendens | Lotus scoparius |
| X Calycadenia tenella | Lycium californicum |
| Calystegia spp. | Mammillaria dioica |
| Castilleja affinis | Marsilea vestita |
| Centaurea cf. melitensis | Melica imperfecta |
| Centaureum venustum | Mulla clevelandii |
| Chaenactis glabriuscula | Mulla maritima |
| Chlorogalum parviflorum | Myosurus min. var apus |
| Chlorogalum pomeridianum | X Navarretia fossalis? |
| Corethrogyne filagin. | Navarretia hamata |
| Cotula | Orcuttia californica |
| X Crassula aquatica | Orthocarpus purpurascens |
| Crassula erecta | Opuntia littoralis |
| Cressa truxillensis | Opuntia prolifera |
| Cryptantha intermedia | Oxalis alb. californica |
| Cuscuta spp. | Pityrogramma triangularis |
| X Deschampsia danthonioides | Plagiobothrys tenellus |
| Dichelostemma pulchella | Pogogyne nudiuscula |
| Dodecatheon clevelandii | X Psilocarphus brevissimus |
| X Dudleya variegata | Psilocarphus tenellus |
| Elatine brachysperma | Salvia apiana |
| X Eleocharis spp. | Selaginella bigelovii |
| Encelia californica | Selaginella cinerascens |
| X Eriogonum fasciculatum | Sanicula bipinnatifida |
| Eriophyllum confertiflorum | Sanicula crassicaulis |
| Erodium cicutarium | Sidalcea malvaeflora |
| X Eryngium aristulatum | X Sisyrinchium bellum |
| Ferocactus viridescens | Sonchus |
| X Filago arizonica | Stipa cernua |
| Galium angustifolium | X Stipa cf. lepida |
| Gasoual crystallinum | Viguiera laciniata |
| Gnaphalium spp. | Vulpia octoflora |
| Grindelia robusta | Zigadenus fremontii |
| X Haplopappus venetus | |
| H. venetus ssp furturaceus | |
| X Hemizonia fasciculata | |
| Heteromeles arbutifolia | |

Baccharis saro.

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-22-86 Data by ETB, TC

Notes _____ Pool Number J23-25

Achillea millefolium
 Allium haematochiton
 Allium praecox
 X Anagallis minimus
 Amaranthus albus
 X Artemisia californica
 Atriplex semibaccata
 X Avena fatua
 X Bloomeria crocea
 Boisduvalia glabella
 X Brodiaea jolonensis
 X Bromus mollis
 Bromus rubens
 Callitriche marginata
 X Calochortus splendens
 X Calycadenia tenella
 Calystegia spp.
 Castilleja affinis
 Centaurea cf. melitensis
 Centaurium venustum
 Chaenactis glabriuscula
 X Chlorogalum parviflorum
 Chlorogalum pomeridianum
 Corethrogyne filagin.
 X Cotula
 Crassula aquatica
 Crassula erecta
 Cressa truxillensis
 X Cryptantha intermedia
 Cuscuta spp.
 X Deschampsia danthonioides
 X Dichelostemma pulchella
 Dodecatheon clevelandii
 X Dudleya variegata
 Elatine brachysperma
 X Eleocharis spp.
 Encelia californica
 X Eriogonum fasciculatum
 Eriophyllum confertiflorum
 X Erodium cicutarium
 X Eryngium aristulatum
 X Ferocactus viridescens
 X Filago arizonica
 Galium angustifolium
 X Gasouai crystallinum
 Gnaphalium spp.
 Grindelia robusta
 Haplopappus venetus
 X H. venetus ssp. furturaceus
 X Hemizonia fasciculata
 Heteromeles arbutifolia

Holocarpa virgata
 X Hordeum jubatum
 X Hypochaeris glabra
 Isoetes orcuttii
 Isomeris arborea
 Jepsonia parryi
 Lamarckia aurea *glabrata*
 X Lasthenia ~~erysostoma~~
 Lepidium nitidum
 X Lilaea scilloides
 Linanthus dianthiflorus
 Linanthus liniflorus
 X Lolium perenne
 Lomatium dasycarpum
 X Lotus scoparius
 Lycium californicum
 X Mammillaria dioica
 Marsilea vestita
 Melica imperfecta
 X Muilla ~~clevelandii~~
 Muilla ~~maritima~~
 Myosurus min. var. apus
 Navarretia fossalis
 Navarretia hamata
 Orcuttia californica
 X Orthocarpus purpurascens
 X Opuntia littoralis
 X Opuntia prolifera
 Oxalis alb. californica
 Pityrogramma triangularis
 Plagiobothrys tenellus
 X Pogogyne nudiuscula
 X Psilocarphus brevissimus
 Psilocarphus tenellus
 X Salvia apiana
 X Selaginella bigelovii
 X Selaginella cinerascens
 Sanicula bipinnatifida
 Sanicula crassicaulis
 Sidalcea malvaeflora
 X Sisyrinchium bellum
 Sonchus
 X Stipa cernua
 X Stipa cf. lepida
 X Viguiera laciniata
 Vulpia octoflora
 Zigadenus fremontii

Lythrum hyssop.

Phalaris lemmonii

Pilularia amer.

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-22-86 Data by ETB, TC

Notes _____ Pool Number J26

- | | |
|------------------------------|-------------------------------------|
| Achillea millefolium | Holocarpha virgata |
| Allium haematociton | Hordeum jubatum |
| Allium praecox | Hypochoeris glabra |
| X Anagallis minimus | Isoetes orcuttii |
| Amaranthus albus | Isomeris arborea |
| X Artemisia californica | Jepsonia parryi |
| Atriplex semibaccata | Lamarckia aurea <i>coronaria</i> |
| Avena fatua | X Lasthenia chrysostroma |
| Bloomeria crocea | Lepidium nitidum |
| Boisduvalia glabella | X Lilaea scilloides |
| X Brodiaea jolonensis | Linanthus dianthiflorus |
| Bromus mollis | Linanthus liniflorus |
| X Bromus rubens | Lolium perenne |
| Callitriche marginata | Lomatium dasycarpum |
| X Calochortus splendens | X Lotus scoparius |
| Calycadenia tenella | Lycium californicum |
| Calystegia spp. | Mammillaria dioica |
| Castilleja affinis | Marsilea vestita |
| Centaurea cf. melitensis | Melica imperfecta |
| X Centaurium venustum | X Muilla clevelandii |
| Chaenactis glabriuscula | Muilla maritima |
| Chlorogalum parviflorum | X Myosurus min. var apus |
| Chlorogalum pomeridianum | Navarretia fossalis |
| Corethrogyne filagrin. | X Navarretia hamata |
| X Cotula | Orcuttia californica |
| Crassula aquatica | X Orthocarpus purpurascens |
| X Crassula erecta | Opuntia littoralis |
| Cressa truxillensis | X Opuntia prolifera |
| Cryptantha intermedia | Oxalis alb. californica |
| Cuscuta spp. | Pityrogramma triangularis |
| X Deschampsia danthonioides | Plagiobothrys tenellus |
| Dichelostemma pulchella | X Pogogyne nudiuscula |
| Dodecatheon clevelandii | X Psilocarphus brevissimus |
| Dudleya variegata | X Psilocarphus tenellus |
| Elatine brachysperma | Salvia apiana |
| Eleocharis spp. | Selaginella bigelovii |
| Encelia californica | X Selaginella cinerascens |
| Eriogonum fasciculatum | Sanicula bipinnatifida |
| X Eriophyllum confertiflorum | Sanicula crassicaulis |
| Erodium cicutarium | Sidalcea malvaeflora |
| X Eryngium aristulatum | X Sisyrinchium bellum |
| Ferocactus viridescens | X Sonchus |
| Filago arizonica | X Stipa cernua |
| Galium angustifolium | Stipa cf. lepida |
| Gasoual crystallinum | X Viguiera laciniata |
| Gnaphalium spp. | Vulpia octoflora |
| Grindelia robusta | Zigadenus fremontii |
| X Haplopappus venetus | |
| H. venetus ssp. furfuraceus | |
| X Hemizonia fasciculata | |
| Heteromeles arbutifolia | |

Adenostoma fas.

Baccharis saro.

Lasthenia glabrata

Pilularia amer.

Plantago big.

Vulpia myuros

Stylocline gna.

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-22-86 Data by ETB, TC

Notes _____

Pool Number J 28 East

- | | |
|---------------------------------------|--|
| Achillea millefolium | Holocarpha virgata |
| Allium haematochiton | Hordeum jubatum |
| Allium praecox | Hypochoeris glabra |
| Anagallis minimus | Isoetes orcuttii |
| Amaranthus albus | Isomeris arborea |
| Artemisia californica | Jepsonia parryi |
| Atriplex semibaccata | Lamarckia aurea ^{coronaria} |
| x Avena fatua | x Lasthenia graysseana |
| Bloomeria crocea | Lepidium nitidum |
| Boisduvalia glabella | x Lilaea scilloides |
| x Brodiaea jolonensis | Linanthus dianthiflorus |
| Bromus mollis | Linanthus liniflorus |
| Bromus rubens | x Lolium perenne |
| Callitriche marginata | Lomatium dasycarpum |
| x Calochortus spendens sp. | Lotus scoparius |
| Calycadenia tenella | Lycium californicum |
| Calystegia spp. | Mammillaria dioica |
| Castilleja affinis | Marsilea vestita |
| Centaurea cf. melitensis | Melica imperfecta |
| Centaureum venustum | Muilla clevelandii |
| Chaenactis glabriuscula | Muilla maritima |
| Chlorogalum parviflorum | Myosurus min. var apus |
| Chlorogalum pomeridianum | Navarretia fossalis |
| Corethrogyne filagrin. | Navarretia hamata |
| Cotula | Orcuttia californica |
| x Crassula aquatica | Orthocarpus purpurascens |
| x Crassula erecta | Opuntia littoralis |
| x Cressa truxillensis | Opuntia prolifera |
| Cryptantha intermedia | Oxalis alb. californica |
| Cuscuta spp. | Pityrogramma triangularis |
| Deschampsia danthonioides | x Plagiobothrys tenellus sp.? |
| Dichelostemma pulchella | Pogogyne nudiuscula |
| Dodecatheon clevelandii | Psilocarphus brevissimus |
| Dudleya variegata | x Psilocarphus tenellus |
| x Elatine brachysperma | Salvia apiana |
| Eleocharis spp. | Selaginella bigelovii |
| Encelia californica | x Selaginella cinerascens |
| Eriogonum fasciculatum | Sanicula bipinnatifida |
| Eriophyllum confertiflorum | Sanicula crassicaulis |
| Erodium cicutarium | Sidalcea malvaeflora |
| x Eryngium aristulatum | Sisyrinchium bellum |
| Ferocactus viridescens | Sonchus |
| Filago arizonica | x Stipa cernua pulchra |
| Galium angustifolium | Stipa cf. lepida |
| ✓ Gasoual crystallinum | Viguiera laciniata |
| Gnaphalium spp. | Vulpia octoflora |
| Grindelia robusta | Zigadenus fremontii |
| Haplopappus venetus | |
| H. venetus ssp furturaceus | |
| Hemizonia fasciculata | |
| Heteromeles arbutifolia | |

- Calandrina cil.
Downingia cusp (1 plant)
Juncus bufonius
Lythrum hyssop.
Pilularia amer.
Rumex crispus

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-14-86 Data by CRS, ETB, TC

Notes 1 pool Pool Number J 28 West

Achillea millefolium	Holocarpha virgata
Allium haematociton	Hordeum jubatum
Allium praecox	Hypochoeris glabra
Anagallis minimus	Isoetes orcuttii
Amaranthus albus	Isomeris arborea
Artemisia californica	Jepsonia parryi
x Atriplex semibaccata	Lamarckia aurea <i>glabrata</i>
x Avena fatua	x Lasthenia chrysostoma
x Bloomeria crocea	Lepidium nitidum
Boisduvalia glabella	Lilaea scilloides
x Brodiaea jolonensis	x Linanthus dianthiflorus?
x Bromus mollis	Linanthus liniflorus
x Bromus rubens	x Lolium perenne
x Callitriche marginata	Lomatium dasycarpum
Calochortus splendens	x Lotus scoparius <i>purshianus</i>
Calycadenia tenella	Lycium californicum
Calystegia spp.	Mammillaria dioica
Castilleja affinis	Marsilea vestita
Centaurea cf. melitensis	Melica imperfecta
Centaureum venustum	x Muilla clevelandii?
Chaenactis glabriuscula	Muilla maritima
x Chlorogalum parviflorum	Myosurus min. var apus
Chlorogalum pomeridianum	x Navarretia fossalis?
Corethrogyne filagrin.	Navarretia hamata
Cotula	Orcuttia californica
Crassula aquatica	Orthocarpus purpurascens
Crassula erecta	Opuntia littoralis
x Cressa truxillensis	Opuntia prolifera
Cryptantha intermedia	Oxalis alb. californica
Cuscuta spp.	Pityrogramma triangularis
x Deschampsia danthonioides	Plagiobothrys tenellus
Dichelostemma pulchella	x Pogogyne nudiuscula
Dodecatheon clevelandii	x Psilocarphus brevissimus
x Dudleya variegata	Psilocarphus tenellus
Elatine brachysperma	Salvia apiana
x Eleocharis spp.	Selaginella bigelovii
Encelia californica	Selaginella cinerascens
x Eriogonum fasciculatum	Sanicula bipinnatifida
Eriophyllum confertiflorum	Sanicula crassicaulis
Erodium cicutarium	Sidalcea malvaeflora
x Eryngium aristulatum	x Sisyrinchium bellum
Ferocactus viridescens	Sonchus
Filago arizonica	x Stipa cernua
Galium angustifolium	Stipa cf. lepida
Gasoual crystallinum	Viguiera laciniata
Gnaphalium spp.	Vulpia octoflora
Grindelia robusta	Zigadenus fremontii
Haplopappus venetus	
H. venetus ssp furturaceus	
x Hemizonia fasciculata	
Heteromeles arbutifolia	

Lythrum hyssop

Melilotus

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-22-86 Data by ETB, TC

Notes _____ Pool Number J 29-30

Achillea millefolium
 Allium haematochiton
 Allium praecox
 Anagallis minimus
 Amaranthus albus
 X Artemisia californica
 Atriplex semibaccata
 X Avena fatua
 X Bloomeria crocea
 Boisduvalia glabella
 Brodiaea jolonensis
 Bromus mollis
 Bromus rubens
 Callitriche marginata
 X Calochortus splendens
 X Calycadenia tenella
 Calystegia spp.
 Castilleja affinis
 Centaurea cf. melitensis
 Centaurium venustum
 Chaenactis glabriuscula
 Chlorogalum parviflorum
 X Chlorogalum pomeridianum
 Corethrogyne filagin.
 Cotula
 X Crassula aquatica
 Crassula erecta
 X Cressa truxillensis
 Cryptantha intermedia
 Cuscuta spp.
 X Deschampsia danthonioides
 Dichelostemma pulchella
 Dodecatheon clevelandii
 X Dudleya variegata
 X Elatine brachysperma
 X Eleocharis spp.
 Encelia californica
 Eriogonum fasciculatum
 X Eriophyllum confertiflorum
 Erodium cicutarium
 X Eryngium aristulatum
 X Ferocactus viridescens
 Filago arizonica
 Galium angustifolium
 Gasoual crystallinum
 Gnaphalium spp.
 Grindelia robusta
 X Haplopappus venetus
 H. venetus ssp. furfuraceus
 Hemizonia fasciculata
 Heteromeles arbutifolia

Holocarpha virgata
 Hordeum jubatum
 Hypochoeris glabra
 Isoetes orcuttii
 X Isomeris arborea
 X Jepsonia parryi
 Lamarckia aurea *glabrata*
 X Lasthenia ~~chrysostruma~~
 Lepidium nitidum
 X Lilaea scilloides
 Linanthus dianthiflorus
 X Linanthus liniflorus
 Lolium perenne
 Lomatium dasycarpum
 X Lotus scoparius
 Lycium californicum
 Mammillaria dioica
 Marsilea vestita
 Melica imperfecta
 Muilla ~~clevelandii~~
 Muilla ~~maritima~~
 Myosurus min. var. apus
 Navarretia fossalis
 X Navarretia hamata
 Orcuttia californica
 X Orthocarpus purpurascens
 Opuntia littoralis
 Opuntia prolifera
 Oxalis alb. californica
 Pityrogramma triangularis
 Plagiobothrys tenellus
 X Pogogyne nudiuscula
 X Psilocarphus brevissimus
 X Psilocarphus tenellus
 Salvia apiana
 Selaginella bigelovii
 Selaginella cinerascens
 Sanicula bipinnatifida
 Sanicula crassicaulis
 Sidalcea malvaeflora
 X Sisyrinchium bellum
 Sonchus
 X Stipa cernua
 X Stipa cf. lepida
 Viguiera laciniata
 Vulpia octoflora
 Zigadenus fremontii

Lythrum hyssop.

Spergularia boc.

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay Mesa Date 4-22-86 Data by ETB, TC

Notes low pond Pool Number J 29

Achillea millefolium
 Allium haematochiton
 Allium praecox
 Anagallis minimus
 Amaranthus albus
 x Artemisia californica
 Atriplex semibaccata
 x Avena fatua
 Bloomeria crocea
 Boissduvalia glabella
 x Brodiaea jolonensis
 Bromus mollis
 Bromus rubens
 Callitriche marginata
 Calochortus splendens
 Calycadenia tenella
 Calystegia spp.
 Castilleja affinis
 Centaurea cf. melitensis
 Centaurium venustum
 Chaenactis glabriuscula
 Chlorogalum parviflorum
 Chlorogalum pomeridianum
 Corethrogyne filagin.
 x Cotula
 Crassula aquatica
 Crassula erecta
 Cressa truxillensis
 Cryptantha intermedia
 Cuscuta spp.
 Deschampsia danthonioides
 Dichelostemma pulchella
 Dodecatheon clevelandii
 Dudleya variegata
 Elatine brachysperma
 x Eleocharis spp.
 Encelia californica
 Eriogonum fasciculatum
 Eriophyllum confertiflorum
 Erodium cicutarium
 x Eryngium aristulatum
 x Ferocactus viridescens
 x Filago arizonica
 Galium angustifolium
 Gasoual crystallinum
 Gnaphalium spp.
 Grindelia robusta
 Haplopappus venetus
 H. venetus ssp furturaceus
 Hemizonia fasciculata
 Heteromeles arbutifolia
 Holocarpha virgata
 Hordeum jubatum
 Hypochoeris glabra
 Isoetes orcuttii
 Isomeris arborea
 Jepsonia parryi
 Lamarckia aurea *glabrata*
 x Lasthenia ~~ehrysostoma~~
 Lepidium nitidum
 Lilaea scilloides
 Linanthus dianthiflorus
 Linanthus liniflorus
 x Lolium perenne
 Lomatium dasycarpum
 Lotus scoparius
 Lycium californicum
 Mammillaria dioica
 Marsilea vestita
 Melica imperfecta
 Muilla ~~clevelandii~~
 Muilla ~~maritima~~
 Myosurus min. var apus
 Navarretia fossalis
 Navarretia hamata
 Orcuttia californica
 x Orthocarpus purpurascens
 Opuntia littoralis
 Opuntia prolifera
 Oxalis alb. californica
 Pityrogramma triangularis
 Plagiobothrys tenellus
 Pogogyne nudiuscula
 x Psilocarphus brevissimus
 Psilocarphus tenellus
 Salvia apiana
 Selaginella bigelovii
 Selaginella cinerascens
 Sanicula bipinnatifida
 Sanicula crassicaulis
 Sidalcea malvaeflora
 x Sisyrinchium bellum
 Sonchus
 Stipa cernua
 Stipa cf. lepida
 Viguiera laciniata
 Vulpia octoflora
 Zigadenus fremontii

Juncus bufonius

Polypogon mon.

Trifolium

Azolla

Lemna

Rumex crispus

Tamarix

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
 Compiled by T. Oberbauer, 1975 and 1977
 E. Bauder, 1985

Location Otay River Date 5-21-86 Data by ETB, PJG
 Notes _____ Pool Number K3-5

- | | |
|---|---|
| Achillea millefolium | Holocarpa virgata |
| Allium haematociton | Hordeum jubatum |
| Allium praecox | X Hypochoeris glabra |
| X Anagallis minimus | Isoetes orcuttii |
| Amaranthus albus | Isomeris arborea |
| X Artemisia californica | Jepsonia parryi |
| Atriplex semibaccata | Lamarckia aurea |
| X Avena fatua <i>barbata</i> | Lasthenia chrysostoma |
| Bloomeria crocea | Lepidium nitidum |
| Boisduvalia glabella | Lilaea scilloides |
| X Brodiaea jolonensis | Linanthus dianthiflorus |
| Bromus mollis | Linanthus liniflorus |
| X Bromus rubens | Lolium perenne |
| Callitriche marginata | Lomatium dasycarpum |
| Calochortus splendens | Lotus scoparius |
| Calycadenia tenella | Lycium californicum |
| Calystegia spp. | Mammillaria dioica |
| Castilleja affinis | Marsilea vestita |
| Centaurea cf. melitensis | Melica imperfecta |
| X Centaurium venustum | Mulla clevelandii |
| Chaenactis glabriuscula | Mulla maritima |
| Chlorogalum parviflorum | Myosurus min. var apus |
| Chlorogalum pomeridianum | X Navarretia fossalis? |
| Corethrogyne filagrin. | X Navarretia hamata |
| Cotula | Orcuttia californica |
| X Crassula aquatica | X Orthocarpus purpurascens |
| X Crassula erecta | Opuntia littoralis |
| Cressa truxillensis | Opuntia prolifera |
| Cryptantha intermedia | Oxalis alb. californica |
| Cuscuta spp. | Pityrogramma triangularis |
| X Deschampsia danthonioides | V Plagiobothrys tenellus sp? |
| Dichelostemma pulchella | Pogogyne nudiuscula |
| Dodecatheon clevelandii | X Psilocarphus brevissimus |
| X Dudleya variegata | X Psilocarphus tenellus |
| Elatine brachysperma | X Salvia apiana <i>mellifera</i> |
| Eleocharis spp. | Selaginella bigelovii |
| Encelia californica | X Selaginella cinerascens |
| X Eriogonum fasciculatum | Sanicula bipinnatifida |
| Eriophyllum confertiflorum | Sanicula crassicaulis |
| Erodium cicutarium | Sidalcea malvaeflora |
| X Eryngium aristulatum | X Sisyrinchium bellum |
| X Ferocactus viridescens | Sonchus |
| X Filago arizonica | Stipa cernua |
| Galium angustifolium | X Stipa cf. lepida |
| Gasoual crystallinum | Viguiera laciniata |
| Gnaphalium spp. | Vulpia octoflora |
| Grindelia robusta | Zigadenus fremontii |
| X Haplopappus venetus | |
| H. venetus ssp furfuraceus | |
| X Hemizonia fasciculata | |
| Heteromeles arbutifolia | |

Adenostoma fas.
Juncus bufonius
Lythrum hyssop
Trichostema lan.
Plantago big.
Rhus laurina
Stylocline gna.
Vulpia myuros

CHECKLIST OF VERNAL POOL FLORA -- OTAY MESA, CA.
Compiled by T. Oberbauer, 1975 and 1977
E. Bauder, 1985

Location Otay River Date 4-22-86 Data by ETB, TC
Notes _____ Pool Number 56

- Achillea millefolium
Allium haematochiton
Allium praecox
X Anagallis minimus
Amaranthus albus
X Artemisia californica
Atriplex semibaccata
X Avena ~~fetus~~ barbata
Bloomeria crocea
Boisduvalia glabella
X Brodiaea jolonensis
Bromus mollis
Bromus rubens
Callitriche marginata
X Calochortus splendens
X Calycadenia tenella
Calystegia spp.
Castilleja affinis
Centaurea cf. melitensis
Centaureium venustum
Chaenactis glabriuscula
Chlorogalum parviflorum
Chlorogalum pomeridianum
Corethrogyne filagin.
Cotula
X Crassula aquatica
Crassula erecta
Cressa truxillensis
Cryptantha intermedia
Cuscuta spp.
X Deschampsia danthonioides
Dichelostemma pulchella
Dodecatheon clevelandii
Dudleya variegata
Elatine brachysperma
Eleocharis spp.
Encelia californica
X Eriogonum fasciculatum
Eriophyllum confertiflorum
Erodium cicutarium
Eryngium aristulatum
Ferocactus viridescens
Filago arizonica
Galium angustifolium
Gasoual crystallinum
Gnaphalium spp.
Grindelia robusta
X Haplopappus venetus
H. venetus ssp. furfuraceus
X Hemizonia fasciculata
Heteromeles arbutifolia

- Holocarpha virgata
Hordeum jubatum
Hypochoeris glabra
Isoetes orcuttii
Isomeris arborea
Jepsonia parryi
Lamarckia aurea
Lasthenia chrysostoma
Lepidium nitidum
Lilaea scilloides
Linanthus dianthiflorus
Linanthus liniflorus
Lolium perenne
Lomatium dasycarpum
X Lotus scoparius
Lycium californicum
Mammillaria dioica
Marsilea vestita
Melica imperfecta
Muilla ~~clevelandii~~
Muilla ~~maritima~~
Myosurus min. var. apus
Navarretia fossalis
Navarretia hamata
Orcuttia californica
X Orthocarpus purpurascens
Y Opuntia littoralis
Opuntia prolifera
Oxalis alb. californica
Pityrogramma triangularis
Plagiobothrys tenellus
Pogogyne nudiuscula
X Psilocarphus brevissimus
Psilocarphus tenellus
Salvia apiana
X Selaginella bigelovii
X Selaginella cinerascens
Sanicula bipinnatifida
Sanicula crassicaulis
Sidalcea malvaeflora
X Sisyrinchium bellum
Sonchus
Stipa cernua
X Stipa cf. lepida
Y Viguiera laciniata
Vulpia octoflora
Zigadenus fremontii

Lythrum hyssop

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Otay River Date 5-21-86 Data by ETB, PJG

Notes _____ Pool Number 57

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	X Filago arizonica	X Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monspeliensis
X Artemisia californica	X Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holcarpha virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
X Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	X Selaginella cinerascens
Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	X Silene gallica
Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	X Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	X Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	Lotus scoparius	<u>Rumex crispus</u>
Cotula coronopifolia	Lotus strigosus	
X Crassula aquatica	Lupinus bicolor	<u>Raphanus</u>
X Crassula erecta	X Lythrum hyssopifolia	
Cryptantha intermedia	Marsilea vestita	<u>Rhamnus crocea</u>
X Deschampsia danthonioides	Micropus californicus	
Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
X Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location San Marcos Date 4-28-86 Data by W. Armstrong
and previous years
 Notes _____ Pool Number L1-6

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	X Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	X Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	X Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
X Anagallis minimus	X Filago arizonica	X Plantago bigelovii
Antirrhinum	Galium aparine	X Plantago erecta
Aplastrum angustifolium	X Gastridium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	X Polypogon monospeliensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	X Hedypnois cretica	Psilocarphus tenellus
X Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
X Bloomeria crocea	Holocarpha virgata	Rhus laurina
X Brassica nigra	Hordeum glaucum	Salvia mellifera
X Brodiaea jolonensis	X Hypochoeris glabra	X Sanicula bipinnatifida
X Brodiaea orcuttii	Isaetes howellii	Scrophularia californica
Bromus diandrus	X Isaetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	X Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
X Calycadenia tenella	Juncus triformis	Sonchus
X Calochortus splendens	Lasthenia californica	Spargula arvensis
Camissonia cistorta	X Lasthenia chrysostoma	X Spargularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	X Stipa pulchra
X Centaurium venustum	X Lepidium lasiocarpum	Stipa lepida
X Chaetopappa aurea	Lilaea scilloides	X Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
X Chlorogalum parviflorum	Linaria canadensis	X Trifolium
X Clarkia purpurea	X Lolium perenne	X Veronica peregrina
Cneoridium dumosum	X Lomatium dasycarpum	Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	X Lotus scoparius	<u>Brodiaea filifolia</u>
X Cotula coronopifolia	Lotus strigosus	<u>Acanthamintha ilic</u>
X Crassula aquatica	X Lupinus bicolor	<u>Navarretia cf. fossalis</u>
X Crassula erecta	X Lythrum hyssopifolia	<u>Typha latifolia</u>
Cryptantha intermedia	Marsilea vestita	
X Deschampsia danthonioides	Micropus californicus	
X Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
X Downingia cuspidata	X Muilla maritima	
X Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
X Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location San Marcos Date 6-16-86 Data by W Armstrong

Notes _____ Pool Number L9-10

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	X Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeliensis
Artemisia californica	Haplopappus venetus	Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
Y Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus dianthus	Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spargula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spargularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	Vulpia myuros
Conyza canadensis	Lotus hamatus	_____
Cordylanthus	Lotus scoparius	_____
Cotula coronopifolia	Lotus strigosus	_____
Crassula aquatica	Lupinus bicolor	_____
Crassula erecta	Lythrum hyssopifolia	_____
Cryptantha intermedia	Marsilea vestita	_____
Deschampsia danthonioides	Micropus californicus	_____
Dichelostemma pulchellum	Microseris douglasii	_____
Dichondra occidentalis	Montia fontana	_____
Dodecatheon clevelandii	Muilla clevelandii	_____
Downingia cuspidata	Muilla maritima	_____
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location San Marcos Date 5-30-86 Data by CPS, ETB

Notes _____ Pool Number L 11-13

- | | | |
|-----------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| Anagallis minimus | Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | X Gastridium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | X Polypogon monospeliensis |
| X Artemisia californica | X Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | X Holocarpha virgata | Rhus laurina |
| X Brassica nigra | X Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| X Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia cillata | X Juncus rugulosus | X Silene gallica |
| Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| X Calycadenia tenella | Juncus triformis | X Sonchus |
| Calochortus splendens | Lasthenia californica | Spargula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spargularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| X Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | X Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Rumex crispus</u> |
| Cotula coronopifolia | Lotus strigosus | <u>Corythogyne</u> |
| Crassula aquatica | Lupinus bicolor | <u>Distichlis</u> |
| X Crassula erecta | X Lythrum hyssopifolia | <u>Calystegia macro.</u> |
| Cryptantha intermedia | Marsilea vestita | <u>Anagallis arven.</u> |
| X Deschampsia danthonioides | Micropus californicus | <u>Atriplex semib.</u> |
| Dichelostemma pulchellum | Microseris douglasii | <u>Salsola iberica</u> |
| Dichondra occidentalis | Montia fontana | <u>Foeniculum vulg.</u> |
| Dodecatheon clevelandii | Mulla clevelandii | |
| X Downingia cuspidata | Mulla maritima | |
| X Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | Navarretia hamata | |
| X Eremocarpus setigerus | Ophioglossum californicum | |
| Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.

Compiled by E. Bauder, Feb. 1986

Location Chula Vista Date 5-28-86 Data by ETB, DAK

Notes _____ Pool Number M1*

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	x Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	x Plagiobothrys acanthocar.?
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	Filago arizonica	x Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	x Polypogon monospeliensis
x Artemisia californica	Haplopappus venetus	x Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	x Hemizonia fasciculata	Pterostegia drymaricoides
x Baccharis sarothroides	Heterotheca grandiflora	x Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
x Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	x Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
x Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	Vulpia myuros
Conyza canadensis	Lotus hamatus	_____
Cordylanthus	Lotus scoparius	_____
Cotula coronopifolia	Lotus strigosus	_____
x Crassula aquatica	Lupinus bicolor	_____
Crassula erecta	Lythrum hyssopifolia	_____
Cryptantha intermedia	Marsilea vestita	_____
Deschampsia danthonioides	Micropus californicus	_____
Dichelostemma pulchellum	Microseris douglasii	_____
Dichondra occidentalis	Montia fontana	_____
Dodecatheon clevelandii	Muilla clevelandii	_____
Downingia cuspidata	Muilla maritima	_____
Elatine brachysperma	Myosurus minimus	_____
Eleocharis acicularis	Navarretia atractyloides	_____
Eleocharis bella	Navarretia prostrata	_____
Eleocharis macrostachya	x Navarretia hamata	_____
Eremocarpus setigerus	Ophioglossum californicum	_____
x Eriogonum fasciculatum	Orcuttia californica	_____

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Chula Vista Date 5-28-86 Data by ETB, DAK

Notes _____ Pool Number M2

- | | | |
|---------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | X Ferocactus viridescens | Plagiobothrys undulatus |
| Anagallis minimus | Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| X Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| Avena barbata | Hedypnois cretica | Psilocarphus tenellus |
| X Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | X Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | X Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| X Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | X Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | Lotus scoparius | <u>Isomeris arborea</u> |
| Cotula coronopifolia | Lotus strigosus | |
| Crassula aquatica | Lupinus bicolor | <u>Opuntia prolifera</u> |
| Crassula erecta | Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | |
| Deschampsia danthonioides | Micropus californicus | |
| Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Muilla clevelandii | |
| Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Chula Vista Date 5-28-86 Data by ETB, DAK

Notes _____ Pool Number M.3

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
X Anagallis minimus	Filago arizonica	X Plantago bigelovii
Antirrhinum	Galium aparine	X Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeliensis
X Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	X Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	X Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
X Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	X Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	X Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	Lotus scoparius	<u>Opuntia prolifera</u>
Cotula coronopifolia	Lotus strigosus	<u>Anagallis arvensis</u>
X Crassula aquatica	Lupinus bicolor	<u>Viguiera lac.</u>
Crassula erecta	Lythrum hyssopifolia	<u>Isomeris arborea</u>
Cryptantha intermedia	Marsilea vestita	<u>Simmondsia</u>
Deschampsia danthonioides	Micropus californicus	<u>Marrubium vulgare</u>
Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	X Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
X Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Chula Vista Date 5-28-86 Data by ETB, DAK

Notes _____ Pool Number M4

Acnillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	X Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	X Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Aplastrum angustifolium	Gastridium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeliensis
X Artemisia californica	X Haplopappus venetus	X Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	X Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	X Juncus bufonius?	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
X Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	X Lasthenia chrysostoma?	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Y Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Y Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	Vulpia myuros
Conyza canadensis	Lotus hamatus	<u>Opuntia littoralis</u>
Cordylanthus	Lotus scoparius	<u>Opuntia prolifera</u>
Cotula coronopifolia	Lotus strigosus	<u>Festuca octoflora?</u>
Crassula aquatica	Lupinus bicolor	_____
Crassula erecta	X Lythrum hyssopifolia	_____
Cryptantha intermedia	Marsilea vestita	_____
X Deschampsia danthonioides	Micropus californicus	_____
Dichelostemma pulchellum	Microseris douglasii	_____
Dichondra occidentalis	Montia fontana	_____
Dodecatheon clevelandii	Muilla clevelandii	_____
Downingia cuspidata	Muilla maritima	_____
Elatine brachysperma	Y Myosurus minimus <i>apus?</i>	_____
Eleocharis acicularis	Navarretia atractyloides	_____
Eleocharis bella	Navarretia prostrata	_____
X Eleocharis macrostachya	X Navarretia hamata	_____
Eremocarpus setigerus	Ophioglossum californicum	_____
X Eriogonum fasciculatum	Orcuttia californica	_____

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Montgomery Field Date 4-9-86 Data by CRS, ETB
 Notes _____ Pool Number N1-4

- | | | |
|-----------------------------|----------------------------|-----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | X Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium naematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus |
| X Anagallis minimus | Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | X Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | X Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| X Bromus diandrus | X Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | X Sonchus |
| X Calochortus splendens | Lasthenia californica | Spargula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spargularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | X Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| X Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Quercus dumosa</u> |
| X Cotula coronopifolia | Lotus strigosus | <u>Galium angustifolium</u> |
| X Crassula aquatica | X Lupinus bicolor | _____ |
| X Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| X Deschampsia danthonioides | Micropus californicus | _____ |
| X Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | X Muilla clevelandii | _____ |
| X Downingia cuspidata | X Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Montgomery Field Date 4-9-86 Data by CRS, ETB

Notes _____ Pool Number N5-6

- | | | |
|-----------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| Adenostoma fasciculatum | X Erodium botrys | X Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | ✓ Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | ✓ Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | X Pogogyne abramsii. |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospermiensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | ✓ Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| X Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpa virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isaetes howellii | Scrophularia californica |
| Bromus diandrus | X Isaetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | X Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | X Sonchus |
| X Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | Lotus scoparius | |
| X Cotula coronopifolia | Lotus strigosus | |
| X Crassula aquatica | Lupinus bicolor | |
| X Crassula erecta | X Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | |
| X Deschampsia danthonioides | Micropus californicus | |
| Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Decatheaon clevelandii | X Muilla clevelandii | |
| X Downingia cuspidata | ✓ Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | Navarretia hamata | |
| Emmocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

Cyperus alternifolius

Gnaphalium calif.

Typha

Anagallis arvensis

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Mission Village Date 4-7-86 Data by ETB, CRS

Notes _____ Pool Number 21

- | | | |
|-----------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus? |
| X Anagallis minimus | X Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | X Plantago erecta |
| Apiastrum angustifolium | Gastrium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| X Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| Avena barbata | X Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| X Baccharis sarothroides | Heterotheca grandiflora | X Rhus integrifolia |
| Bloomeria crocea | Holocarpa virgata | Rhus laurina |
| X Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| X Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | X Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| X Calandrinia ciliata | Juncus rugulosus | X Silene gallica |
| Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | X Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | X Lasthenia coronaria | Stephanomeria virgata |
| X Centaurea melitensis | X Lasthenia glabrata | Stipa pulchra |
| Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | X Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linantus dianthiflorus | Trichostema lanceolatum |
| X Chlorogalum parviflorum | Linaria canadensis | X Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | X Lotus hamatus | |
| Cordylanthus | Lotus scoparius | <u>Melilotus</u> |
| Cotula coronopifolia | Lotus strigosus | |
| X Crassula aquatica | X Lupinus bicolor | <u>Astragalus</u> |
| X Crassula erecta | X Lythrum hyssopifolia | |
| X Cryptantha intermedia | Marsilea vestita | <u>Daucus?</u> |
| X Deschampsia danthonioides | Micropus californicus | |
| X Dichelostemma pulchellum | Microseris douglasii | <u>Anagallis arvensis</u> |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | X Muilla clevelandii | <u>Opuntia littoralis</u> |
| Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | <u>Gnaphalium sp.</u> |
| X Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Grossmont College Date 4-7-86 Data by ETB, CRS

Notes _____ Pool Number Q

- | | | |
|---------------------------|-----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | X Gnaphalium palustre | Polypogon monospeliensis |
| X Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | Hemizonia fasciculata | Pterostegia drymaricoides |
| X Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| Bromus mollis | Jepsonia parryi | X Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spargula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spargularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | X Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| X Chlorogalum parviflorum | Linaria canadensis | X Trifolium |
| X Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | X Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Mimulus</u> |
| Cotula coronopifolia | Lotus strigosus | _____ |
| X Crassula aquatica | X Lupinus bicolor | _____ |
| X Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| Deschampsia danthonioides | Micropus californicus | _____ |
| Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | X Muilla clevelandii | _____ |
| Downingia cuspidata | X Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | X Navarretia atractyloides? | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | X Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Proctor Valley Date 5-21-86 Data by ETB, PJG

Notes _____ Pool Number R1

- | | | |
|-----------------------------|--------------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pitularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| Anagallis minimus | Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastridium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | Y Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isaetes howellii | Scrophularia californica |
| Bromus diandrus | Isaetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizantne | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | Vulpia myuros |
| Conyza canadensis | Lotus hamatus | _____ |
| Cordylanthus | Lotus scoparius | _____ |
| Cotula coronopifolia | Lotus strigosus | _____ |
| X Crassula aquatica | Lupinus bicolor | _____ |
| Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| X Deschampsia danthonioides | Micropus californicus | _____ |
| Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | Mulla clevelandii | _____ |
| Downingia cuspidata | Mulla maritima | _____ |
| X Elytine brachysperma | X Myosurus minimus <i>spus</i> | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | Navarretia hamata | |
| Y Eremocarpus setigerus | Ophioglossum californicum | |
| Y Eriogonum fasciculatum | Urcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Sweetwater Lake Date 4-29-85 Data by ETB, TG et al

Notes _____ Pool Number S 1-3

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastridium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeliensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata ?	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	X Holocarpha virgata	Rhus laurina
X Brassica nigra	Hordeum glaucum	Salvia mellifera
X Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
X Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	X Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	X Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	Lotus scoparius	<u>Navarretia cf fossilis</u>
X Cotula coronopifolia	Lotus strigosus	
X Crassula aquatica	Lupinus bicolor	<u>Baisduvalia glabella</u>
Crassula erecta	Lythrum hyssopifolia	
Cryptantha intermedia	Marsilea vestita	
Deschampsia danthonioides	Micropus californicus	
X Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Urcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Ramona Date 6-5-86 Data by CRS

Notes _____ Pool Number T1

- | | | |
|---------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus |
| Anagallis minimus | Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastridium ventricosum | Pogogyne abramsii. |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | X Polypogon monospeliensis |
| Artemisia californica | X Haplopappus venetus | X Psilocarphus brevissimus |
| Avena barbata | Hedypnois cretica | Psilocarphus tenellus |
| X Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| X Brassica nigra | X Hordeum glaucum | Salvia mellifera |
| X Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| X Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | X Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | X Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | Lotus scoparius | <u>Distichlis</u> |
| X Cotula coronopifolia | Lotus strigosus | <u>Rumex crispus</u> |
| X Crassula aquatica | X Lupinus bicolor | <u>Sida</u> |
| Crassula erecta | X Lythrum hyssopifolia | <u>Cressa</u> |
| Cryptantha intermedia | Marsilea vestita | |
| Deschampsia danthonioides | Micropus californicus | |
| Dichelostemma pulchellum | X Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Muilla clevelandii | |
| X Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Ramona Date 6-5-86 Data by C.R.S.

Notes _____ Pool Number T2

- | | | |
|---------------------------|----------------------------|-------------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| Anagallis minimus | Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | X Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| Avena barbata | Hedypnois cretica | Psilocarphus tenellus |
| Avena fatua | Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| Bromus rubens | Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia distorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | X Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | <u>Distichlis</u> |
| Cordylanthus | Lotus scoparius | <u>Sida</u> |
| Cotula coronopifolia | Lotus strigosus | <u>Cressa</u> |
| Crassula aquatica | Lupinus bicolor | <u>Navarretia cf fossalis</u> |
| Crassula erecta | Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | |
| Deschampsia danthonioides | Micropus californicus | |
| Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Muilla clevelandii | |
| Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Ramona Date 6-5-86 Data by CRS

Notes _____ Pool Number T.3

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	X Erodium botrys	X Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	X Plagiobothrys undulatus
Anagallis minimus	Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastridium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeliensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpa virgata	Rhus laurina
Brassica nigra	X Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	X Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	<u>Rumex crispus</u>
Cordylanthus	Lotus scoparius	<u>Boisduvalia glabella</u>
Cotula coronopifolia	Lotus strigosus	_____
X Crassula aquatica	Lupinus bicolor	_____
Crassula erecta	X Lythrum hyssopifolia	_____
Cryptantha intermedia	Marsilea vestita	_____
Deschampsia danthonioides	Micropus californicus	_____
Dichelostemma pulchellum	Microseris douglasii	_____
Dichondra occidentalis	Montia fontana	_____
Dodecatheon clevelandii	Muilla clevelandii	_____
Downingia cuspidata	Muilla maritima	_____
Elatine brachysperma	Myosurus minimus	_____
Eleocharis acicularis	Navarretia atractyloides	_____
Eleocharis bella	Navarretia prostrata	_____
X Eleocharis macrostachya	Navarretia hamata	_____
Eremocarpus setigerus	Ophioglossum californicum	_____
Eriogonum fasciculatum	Orcuttia californica	_____

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Ramona Date 6-5-86 Data by CRS

Notes _____ Pool Number T 4-5

Achillea millefolium	Eriophyllum confertiflorum	X Orthocarpus purpurascens
Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	X Plagiobothrys undulatus
Anagallis minimus	Filago arizonica	X Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	X Gastridium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeliensis
Artemisia californica	X Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedynois cretica	Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
Brassica nigra	X Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	X Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spargulia arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spargularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	X Lolium perenne	X Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	Lotus scoparius	<u>Distichlis</u>
Cotula coronopifolia	Lotus strigosus	
X Crassula aquatica	Lupinus bicolor	<u>Boisduvalia glabella</u>
Crassula erecta	X Lythrum hyssopifolia	<u>Rumex crispus</u>
Cryptantha intermedia	Marsilea vestita	
X Deschampsia danthonioides	Micropus californicus	
Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
X Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
X Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Landmark Date 5/86 Data by ETB

Notes _____ Pool Number U 1-13

- | | | |
|-----------------------------|-------------------------------|-----------------------------|
| Achillea millefolium | X Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | X Erodium cicutarium | X Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| X Allium haematochiton | X Eschscholzia californica | X Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | X Plantago bigelovii |
| X Antirrhinum | X Galium aparine | X Plantago erecta |
| X Apiastrum angustifolium | X Gastridium ventricosum | X Pogogyne abramsii |
| X Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| X Aponogeton distans | Gnaphalium palustre | X Polypogon monospeliensis |
| X Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | X Rhus integrifolia |
| X Bloomeria crocea | X Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | X Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | X Isoetes howellii | Scrophularia californica |
| Bromus diandrus | X Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | X Jepsonia parryi | X Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| X Calandrinia ciliata | Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| X Calycadenia tenella | Juncus triformis | X Sonchus |
| X Calochortus splendens | Lasthenia californica | Spargula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spargularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | X Stipa lepida |
| X Chaetopappa aurea | X Lilaea scilloides | X Stylocline gnaphalioides |
| X Chorizanthe | X Linanthus dianthiflorus | Trichostema lanceolatum |
| X Chlorogalum parviflorum | X Linaria canadensis | X Trifolium |
| X Clarkia purpurea | Lolium perenne | X Veronica peregrina |
| X Cneoridium dumosum | X Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | X Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Eriodictyon</u> |
| X Cotula coronopifolia | Lotus strigosus | |
| X Crassula aquatica | X Lupinus bicolor | <u>Typha</u> |
| X Crassula erecta | X Lythrum hyssopifolia | |
| X Cryptantha intermedia | Marsilea vestita | <u>Aponogeton</u> |
| X Deschampsia danthonioides | Micropus californicus | <u>Lotus purshianus</u> |
| X Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | X Montia fontana | |
| X Dodecatheon clevelandii | X Muilla clevelandii | |
| X Downingia cuspidata | X Muilla maritima | |
| X Elatine brachysperma | X Myosurus minimus-filiformis | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | X Navarretia hamata | |
| X Eremocarpus setigerus | X Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Landmark Date 4-23-86 Data by CBS
Notes end of Magnatron Road Pool Number U14*

- | | | |
|-----------------------------|----------------------------|-------------------------------|
| . Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| X Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpa virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isaetes howellii | Scrophularia californica |
| X Bromus diandrus | Isaetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | X Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | X Lilaea scilloides | Stylocline gnaphalioides |
| X Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Helianthemum scoparium</u> |
| X Cotula coronopifolia | Lotus strigosus | |
| X Crassula aquatica | Lupinus bicolor | <u>Lamarckia aurea</u> |
| X Crassula erecta | X Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | |
| X Deschampsia danthonioides | Micropus californicus | |
| Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Muilla clevelandii | |
| X Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Landmark Date 6-25-86 Data by ETB, PJG
 Notes _____ Pool Number U 18+

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	X Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	X Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minjmus	Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	X Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeliensis
Artemisia californica.	Haplopappus venetus	Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
X Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spargula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spargularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	<u>Rumex crispus</u>
Cordylanthus	Lotus scoparius	<u>Quercus dumosa</u>
Cotula coronopifolia	Lotus strigosus	<u>Scirpus alternifolia</u>
Crassula aquatica	Lupinus bicolor	_____
Crassula erecta	X Lythrum hyssopifolia	_____
Cryptantha intermedia	Marsilea vestita	
Deschampsia danthonioides	Micropus californicus	
Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	Navarretia hamata	
X Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Sim J Harris Date 4-10-86 Data by ETB

Notes _____ Pool Number V 1-3

- | | | |
|----------------------------|----------------------------|--------------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| X Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| Anagallis minimus | Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | Psilocarphus brevissimus |
| Avena barbata | Hedypnois cretica | Psilocarphus tenellus |
| Avena fatua | Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpa virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | X Salvia mellifera |
| Brodiaea jolonensis | Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | X Isoetes orcuttii | Scutellaria tuberosa |
| Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| Bromus rubens | Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Eriodictyon</u> |
| X Cotula coronopifolia | Lotus strigosus | <u>Heteromeles arbutifolia</u> |
| X Crassula aquatica | Lupinus bicolor | <u>Quercus dumosa</u> |
| Crassula erecta | Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | |
| Deschampsia danthonioides | Micropus californicus | |
| X Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Muilla clevelandii | |
| X Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location South Miramar NAS Date 4/30/86 Data by ETA, PJG

Notes _____ Pool Number W1-2

Achillea millefolium	Eriophyllum confertiflorum	X Orthocarpus purpurascens
Adenostoma fasciculatum	X Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	X Pilularia americana
Agrostis	X Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	X Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
X Anagallis minimus	X Filago arizonica	X Plantago bigelovii
Antirrhinum	Galium aparine	X Plantago erecta
Apiastrum angustifolium	X Gastridium ventricosum	X Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeliensis
X Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	X Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	X Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	X Holocarpha virgata	X Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
X Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	X Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	X Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
X Calycadenia tenella	Juncus triformis	Sonchus
X Calochortus splendens	Lasthenia californica	Spargula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spargularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	X Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
X Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
X Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	_____
Cordylanthus	X Lotus scoparius	_____
Cotula coronopifolia	Lotus strigosus	_____
X Crassula aquatica	Lupinus bicolor	_____
X Crassula erecta	X Lythrum hyssopifolia	_____
Cryptantha intermedia	Marsilea vestita	_____
X Deschampsia danthonioides	Micropus californicus	_____
X Dichelostemma pulchellum	Microseris douglasii	_____
Dichondra occidentalis	Montia fontana	_____
X Dodecatheon clevelandii	X Muilla clevelandii	_____
X Downingia cuspidata	X Muilla maritima	_____
Elatine brachysperma	Myosurus minimus	_____
Eleocharis acicularis	Navarretia atractyloides	_____
Eleocharis bella	Navarretia prostrata	_____
X Eleocharis macrostachya	X Navarretia hamata	_____
Eremocarpus setigerus	X Ophioglossum californicum	_____
X Erigonum fasciculatum	Orcuttia californica	_____

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location South Miramar NAB Date 4-30-86 Data by ETB, PJG

Notes _____ Pool Number W3

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	X Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	X Eryngium aristulatum	Pityrogramma triangularis
Allium naematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
X Anagallis minimus	Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	X Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeliensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	X Holocarpha virgata	X Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
X Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	_____
Cordylanthus	X Lotus scoparius	_____
Cotula coronopifolia	Lotus strigosus	_____
X Crassula aquatica	Lupinus bicolor	_____
Crassula erecta	X Lythrum hyssopifolia	_____
Cryptantha intermedia	Marsilea vestita	_____
X Deschampsia danthonioides	Micropus californicus	_____
Dichelostemma pulchellum	Microseris douglasii	_____
Dichondra occidentalis	Montia fontana	_____
Dodecatheon clevelandii	Muilla clevelandii	_____
X Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Urcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location West Miramar NAS Date 4-15-86 Data by CAS, ETB

Notes _____ Pool Number X 1-3

- | | | |
|-----------------------------|------------------------------|--------------------------------|
| Achillea millefolium | X Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus |
| X Anagallis minimus | Filago arizonica | Plantago bigelovii |
| X Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | X Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | X Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | X Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | X Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| X Chaetopappa aurea | X Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| X Clarkia purpurea | Lolium perenne | Veronica peregrina |
| X Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | Lotus scoparius | <u>Heteromeles arbutifolia</u> |
| X Cotula coronopifolia | Lotus strigosus | |
| X Crassula aquatica | X Lupinus bicolor | <u>Ceanothus greggii</u> |
| Crassula erecta | X Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | <u>Briza</u> |
| X Deschampsia danthonioides | Micropus californicus | |
| X Dichelostemma pulchellum | Microseris douglasii | <u>Sidalcea</u> |
| Dichondra occidentalis | Montia fontana | |
| X Dodecatheon clevelandii | X Muilla clevelandii | <u>Eriodictyon</u> |
| X Downingia cuspidata | X Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location West Miramar NAs Date 4-15-86 Data by CRS, ETB

Notes _____ Pool Number X4

- | | | |
|-----------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| X Allium haematochiton | X Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastridium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | X Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpa virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | X Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | X Lasthenia glabrata | X Stipa pulchra |
| X Centaurium venustum | X Lepidium lasiocarpum? | X Stipa lepida |
| Chaetopappa aurea | X Lilaea scilloides | X Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| X Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| X Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | X Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Briza</u> |
| X Cotula coronopifolia | Lotus strigosus | |
| X Crassula aquatica | X Lupinus bicolor | <u>Heteromeles arbut.</u> |
| X Crassula erecta | X Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | <u>Helianthemum</u> |
| X Deschampsia danthonioides | Micropus californicus | |
| Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | X Muilla clevelandii | |
| X Downingia cuspidata | X Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location West Miramar NAS Date 6-16-86 Data by ETB

Notes Costa Verde Pool Number X 6⁺

Achillea millefolium	Eriophyllum confertiflorum	X Orthocarpus purpurascens
Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	X Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	X Plantago erecta
Aplastrum angustifolium	Gastridium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	X Polypogon monospermiensis
Artemisia californica	X Haplopappus venetus	X Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpa virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	X Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	Lotus scoparius	
X Cotula coronopifolia	Lotus strigosus	
X Crassula aquatica	Lupinus bicolor	
Crassula erecta	X Lythrum hyssopifolia	
Cryptantha intermedia	Marsilea vestita	
X Deschampsia danthonioides	Micropus californicus	
Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Mulla clevelandii	
Downingia cuspidata	Mulla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
X Eleocharis macrostachya	Navarretia hamata	
X Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Pendleton Date 1985-86 Data by CRS, CCP

Notes Between Las Flores Creek & French Canyon Pool Number Y 1-3

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	x Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastridium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	x Polygogon monospermiensis
Artemisia californica	Haplopappus venetus	x Psilocarphus brevissimus
x Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpa virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
x Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	x Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	x Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizantho	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	Vulpia myuros
Conyza canadensis	Lotus hamatus	^{Distichlis} <u>Solanum douglasii</u>
Cordylanthus	Lotus scoparius	<u>Erodium moschatum</u>
x Cotula coronopifolia	Lotus strigosus	<u>Corythogyne filag.</u>
x Crassula aquatica	Lupinus bicolor	<u>Rumex crispus</u>
Crassula erecta	x Lythrum hyssopifolia	<u>Dudleya lanceolata</u>
Cryptantha intermedia	x Marsilea vestita	<u>Dudleya edulis</u>
Deschampsia danthonioides	Micropus californicus	<u>Lycium californica</u>
Dichelostemma pulchellum	Microseris douglasii	<u>Salix lasio</u>
Dichondra occidentalis	Montia fontana	<u>Baccharis glutinosa</u>
Dodecatheon clevelandii	Mulla clevelandii	<u>Opuntia littoralis</u>
Downingia cuspidata	Mulla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
x Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
x Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Pendleton Date 1985+1984 Data by CRS, CCP
Notes North of Las Flores Creek Pool Number Y4

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	X Erodium cicutarium	Pilularia americana
Agrostis	Y Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastrium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	X Polypogon monospeliensis
Y Artemisia californica	X Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpa virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	X Lotus scoparius	<u>Gasoul cryst.</u>
X Cotula coronopifolia	Lotus strigosus	<u>Oxalis</u>
X Crassula aquatica	Lupinus bicolor	<u>Salsola iberica</u>
Crassula erecta	Lythrum hyssopifolia	<u>Distichlis</u>
Cryptantha intermedia	Marsilea vestita	<u>Cressa</u>
Deschampsia danthonioides	Micropus californicus	
Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
X Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Pendleton Date 1984-1985 Data by CRS, CCP

Notes South of Santa Margarita River Pool Number Y5⁺

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	X Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	X Pilularia americana
Agrostis	X Eryngium aristulatum	Pityrogramma triangularis
Allium haematociton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastroidium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	X Polypogon monospeliensis
Artemisia californica	X Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaureum venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	Vulpia myuros
Conyza canadensis	Lotus hamatus	<u>Rumex crispus</u>
Cordylanthus	Lotus scoparius	_____
X Cotula coronopifolia	Lotus strigosus	_____
X Crassula aquatica	Lupinus bicolor	_____
Crassula erecta	X Lythrum hyssopifolia	_____
Cryptantha intermedia	Marsilea vestita	_____
Deschampsia danthonioides	Micropus californicus	_____
Dichelostemma pulchellum	Microseris douglasii	_____
Dichondra occidentalis	Montia fontana	_____
Dodecatheon clevelandii	Muilla clevelandii	_____
Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
X Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Pendleton Date 1984-1985 Data by CRS, CCP
Notes Cocklebur Mesa Pool Number Y6*

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastridium ventricosum	Pogogyne abramsii.
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	X Polypogon monospeliensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	X Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	X Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	<u>Rumex crispus</u>
Cordylanthus	Lotus scoparius	<u>Sida</u>
X Cotula coronopifolia	Lotus strigosus	<u>Typha</u>
X Crassula aquatica	Lupinus bicolor	<u>Grindelia</u>
Crassula erecta	X Lythrum hyssopifolia	<u>Foeniculum</u>
Cryptantha intermedia	X Marsilea vestita	
Deschampsia danthonioides	Micropus californicus	
Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
X Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location West Gate Miramar Date 4-10-86 Data by ETB
NAS

Notes _____ Pool Number 215

- | | | |
|----------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus |
| X Anagallis minimus | Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monspeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | X Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | X Isoetes orcuttii | Scutellaria tuberosa |
| Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| Bromus rubens | Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | X Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | X Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| X Chaetopappa aurea | X Lilaea scilloides | X Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| X Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | Lotus scoparius | <u>Quercus dumosa</u> |
| Cotula coronopifolia | Lotus strigosus | <u>Eriodictyon</u> |
| Crassula aquatica | X Lupinus bicolor | <u>Mimulus</u> |
| Crassula erecta | Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | |
| Deschampsia danthonioides | Micropus californicus | |
| X Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Muilla clevelandii | |
| X Downingia cuspidata | X Muilla maritima | |
| X Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location West Gate Miramar Date 4-10-86 Data by ETB
NAS

Notes _____ Pool Number Z 6-7

- | | | |
|-----------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Y Plagiobothrys undulatus |
| X Anagallis minimus | Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastrium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | Y Psilocarphus tenellus |
| Avena fatua | Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | X Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Y Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | X Stipa lepida? |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| X Chlorogalum parviflorum | Linaria canadensis | X Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Solanum</u> |
| X Cotula coronopifolia | Lotus strigosus | |
| Crassula aquatica | X Lupinus bicolor | <u>Lotus purshianus</u> |
| Crassula erecta | Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | |
| X Deschampsia danthonioides | Micropus californicus | |
| Dichelostemma pulchellum | X Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | X Muilla clevelandii | |
| X Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location East Miramar NAS Date 5-12-86 Data by ETB

Notes _____ Pool Number AA 3-7

- | | | |
|-----------------------------|-----------------------------------|-----------------------------|
| X Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | X Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | X Eryngium aristulatum <u>AA3</u> | Pityrogramma triangularis |
| X Allium haematochiton | X Eschscholzia californica | X Plagiobothrys acanthocar. |
| Alopecurus | X Ferocactus viridescens | X Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | X Plantago erecta |
| X Apiastrum angustifolium | X Gastridium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospermiensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | X Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | X Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | X Jepsonia parryi | X Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| X Camissonia bistorta | X Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| X Chaetopappa aurea | Lilaea scilloides | X Stylocline gnaphalioides |
| Chorizanthe | X Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | X Linaria canadensis | X Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| X Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | X Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Mimulus</u> |
| Cotula coronopifolia | Lotus strigosus | |
| X Crassula aquatica | Lupinus bicolor | <u>Dichondra occ.</u> |
| X Crassula erecta | X Lythrum hyssopifolia | |
| X Cryptantha intermedia | Marsilea vestita | <u>Delphinium sp.</u> |
| X Deschampsia danthonioides | Micropus californicus | |
| X Dichelostemma pulchellum | Microseris douglasii | <u>Yucca shidigera</u> |
| X Dichondra occidentalis | Montia fontana | <u>Chorizantho proc.</u> |
| X Dodecatheon clevelandii | X Muilla clevelandii | |
| X Downingia cuspidata | X Muilla maritima | |
| X Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | X Navarretia hamata | |
| X Eremocarpus setigerus | X Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location E. Miramar NAS Date 4-9-86 Data by ETB, CRS

Notes _____ Pool Number AA8⁺

Achillea millefolium	Eriophyllum confertiflorum	X Orthocarpus purpurascens
X Adenostoma fasciculatum	X Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	X Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
X Allium haematochiton	X Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
X Anagallis minimus	X Filago arizonica	X Plantago bigelovii
Antirrhinum	Galium aparine	X Plantago erecta
Apiastrum angustifolium	X Gastridium ventricosum	X Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeliensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	X Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	X Rhus integrifolia
Bloomeria crocea	X Holocarpha virgata	X Rhus laurina
Brassica nigra	Hordeum glaucum	X Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
X Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	X Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	X Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
X Calandrinia ciliata	X Juncus rugulosus	X Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	X Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	X Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
X Chaetopappa aurea	X Lilaea scilloides	X Stylocline gnaphalioides
X Chorizanthe	X Linanthus dianthiflorus	Trichostema lanceolatum
X Chlorogalum parviflorum	Linaria canadensis	X Trifolium
X Clarkia purpurea	Lolium perenne	Veronica peregrina
X Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	X Lotus scoparius	<u>Mimulus puniceus</u>
Cotula coronopifolia	X Lotus strigosus	
X Crassula aquatica	X Lupinus bicolor	<u>Xylococcus bicolor</u>
X Crassula erecta	X Lythrum hyssopifolia	
X Cryptantha intermedia	Marsilea vestita	<u>Eriodictyon</u>
X Deschampsia danthonioides	Micropus californicus	
X Dichelostemma pulchellum	Microseris douglasii	<u>Heteromeles arbutifolia</u>
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	X Muilla clevelandii	<u>Solanum xanthii</u>
Downingia cuspidata	X Muilla maritima	
Elatine brachysperma	Myosurus minimus	Delphinium
Eleocharis acicularis	Navarretia atractyloides	Helianthemum scoparium
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	X Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
X Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location East Miramar NAs Date 4-10-86 Data by ETB

Notes _____ Pool Number AA 9^r

- | | | |
|-----------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus |
| Anagallis minimus | Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| X Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| Bromus rubens | Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | X Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | X Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | Lotus scoparius | <u>Lotus purshianus</u> |
| X Cotula coronopifolia | Lotus strigosus | <u>vetch</u> |
| Crassula aquatica | Lupinus bicolor | _____ |
| Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| X Deschampsia danthonioides | Micropus californicus | _____ |
| Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | X Muilla clevelandii | _____ |
| X Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location East Miramar NAS Date 4/86 Data by G. Cox

Notes _____ Pool Number AA 10⁺

- | | | |
|-----------------------------|------------------------------|----------------------------|
| Achillea millefolium | X Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium naematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Y Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | X Plantago bigelovii |
| Antirrhinum | X Galium aparine | Y Plantago erecta |
| Apiastrum angustifolium | X Gastridium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| X Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| Y Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochaeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | X Jepsonia parryi | X Selaginella cinerascens |
| Y Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| X Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spargula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spargularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| X Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | X Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Y Chlorogalum parviflorum | Linaria canadensis | X Trifolium |
| X Clarkia purpurea | Lolium perenne | Y Veronica peregrina |
| X Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | X Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Microseris linearis</u> |
| X Cotula coronopifolia | X Lotus strigosus | <u>Galium nuttallii</u> |
| X Crassula aquatica | Y Lupinus bicolor | _____ |
| X Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| Y Deschampsia danthonioides | Micropus californicus | _____ |
| Y Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | X Montia fontana | _____ |
| Dodecatheon clevelandii | X Muilla clevelandii | _____ |
| X Downingia cuspidata | X Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | X Navarretia hamata | |
| X Eremocarpus setigerus | X Ophioglossum californicum | |
| Y Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Pomeroado Road Date 5-30-86 Data by CRS, ETB

Notes _____ Pool Number CC 3-4

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	X Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	X Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	X Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	X Gastridium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monspeliensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	X Hedypnois cretica	Psilocarphus tenellus
X Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	X Holocarpha virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	X Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
X Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	X Silene gallica
Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	X Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
X Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	X Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	Lotus scoparius	
Cotula coronopifolia	Lotus strigosus	
Crassula aquatica	Lupinus bicolor	
X Crassula erecta	X Lythrum hyssopifolia	
Cryptantha intermedia	Marsilea vestita	
Deschampsia danthonioides	Micropus californicus	
X Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	Navarretia hamata	
Eremocarpus setigerus	Ophioglossum californicum	
X Eriogonum fasciculatum	Orcuttia californica	

Corythogyne

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Pomerado Road Date 5-30-86 Data by CRS, ETB

Notes _____ Pool Number CC 5-6

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	X Plagiobothrys acanthocar.
Alopecurus	X Ferocactus viridescens	Plagiobothrys undulatus
Y Anagallis minimus	Y Filago arizonica	X Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	X Gastridium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	X Polypogon monospeliensis
X Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
X Avena barbata	Hedypnois cretica	X Psilocarphus tenellus
Avena fatua	X Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	X Holocarpha virgata	Rhus laurina
Brassica nigra	X Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Y Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
X Bromus mollis	Jepsonia parryi	X Selaginella cinerascens
X Bromus rubens	X Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	X Silene gallica
Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
X Calycadenia tenella	Juncus triflorus	Sonchus
Calochortus splendens	Lasthenia californica	Spergularia arvensis
Camissonia cistorta	Lasthenia chrysostoma	X Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
X Centaurea melitensis	Lasthenia glabrata	X Stipa pulchra
X Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
X Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	X Lolium perenne	X Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	X Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	Lotus scoparius	
Cotula coronopifolia	Lotus strigosus	<u>Dudleya variegata</u>
Y Crassula aquatica	Lupinus bicolor	<u>Calystegia macro.</u>
X Crassula erecta	Lythrum hyssopifolia	
Cryptantha intermedia	Marsilea vestita	
X Deschampsia danthonioides	Micropus californicus	
Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
X Eleocharis macrostachya	X Navarretia hamata	
X Eremocarpus setigerus	Ophioglossum californicum	
X Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Pomerado Road Date 5-30-86 Data by CRS, ETB

Notes _____ Pool Number CC7

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	x Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	x Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	x Filago arizonica	x Plantago bigelovii
Antirrhinum	Galium aparine	x Plantago erecta
Apiastrum angustifolium	x Gastridium ventricosum	Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monspeliensis
x Artemisia californica	Haplopappus venetus	x Psilocarphus brevisimus
x Avena barbata	Hedypnois cretica	x Psilocarphus tenellus
Avena fatua	x Hemizonia fasciculata	Pterostegia drymaricoides
x Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	x Holocarpha virgata	Rhus laurina
x Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	x Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
x Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
x Bromus mollis	Jepsonia parryi	x Selaginella cinerascens
x Bromus rubens	x Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	x Silene gallica
Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
x Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	x Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	x Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	Stipa pulchra
x Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
x Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	x Vulpia myuros
Conyza canadensis	Lotus hamatus	
Cordylanthus	x Lotus scoparius	<u>Anagallis arvensis</u>
Cotula coronopifolia	Lotus strigosus	<u>Opuntia littoralis</u>
x Crassula aquatica	Lupinus bicolor	<u>Rumex crispus</u>
Crassula erecta	x Lythrum hyssopifolia	<u>Cuscuta</u>
Cryptantha intermedia	Marsilea vestita	
Deschampsia danthonioides	Micropus californicus	
Dichelostemma pulchellum	Microseris douglasii	
Dichondra occidentalis	Montia fontana	
Dodecatheon clevelandii	Muilla clevelandii	
Downingia cuspidata	Muilla maritima	
Elatine brachysperma	Myosurus minimus	
Eleocharis acicularis	Navarretia atractyloides	
Eleocharis bella	Navarretia prostrata	
Eleocharis macrostachya	Navarretia hamata	
x Eremocarpus setigerus	Ophioglossum californicum	
x Eriogonum fasciculatum	Orcuttia californica	

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Rancho Bernardo Date 5-30-86 Data by CAS, ETB

Notes no vernal pool taxa Pool Number DD 2-3

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|----------------------------|----------------------------|---------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| Anagallis minimus | Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastridium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospermiensis |
| Y Artemisia californica | Haplopappus venetus | Psilocarphus brevissimus |
| X Avena barbata | X Hedypnois cretica | Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| X Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Y Holocarpha virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Y Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | X Silene gallica |
| Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| X Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Y Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | Lotus scoparius | <u>Stipa coronaria</u> |
| Cotula coronopifolia | X Lotus strigosus | <u>tumato seedlings</u> |
| Crassula aquatica | Lupinus bicolor | |
| Crassula erecta | Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | |
| Deschampsia danthonioides | Micropus californicus | |
| X Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Muilla clevelandii | |
| Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Rancho Bernardo Date 5-30-86 Data by CAS, ETB

Notes _____ Pool Number DD4

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|-----------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| X Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | X Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | X Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | X Gastridium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| X Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus glandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | X Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| X Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| X Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizantne | Linanthus dianthiflorus | Trichostema lanceolatum |
| X Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Calochortus sp?</u> |
| Cotula coronopifolia | Lotus strigosus | <u>Rumex crispus</u> |
| X Crassula aquatica | Lupinus bicolor | <u>Helianthemum scop.</u> |
| X Crassula erecta | X Lythrum hyssopifolia | <u>Quercus dumosa</u> |
| Cryptantha intermedia | Marsilea vestita | <u>Opuntia littoralis</u> |
| X Deschampsia danthonioides | Micropus californicus | |
| Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Muilla clevelandii | |
| Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | X Navarretia hamata | |
| X Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Miramar NAS Interior Date 4-10-86 Data by ETB

Notes _____ Pool Number EE1*

- | | | |
|-----------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | X Pilularia americana |
| Agrostis | Y Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | X Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | X Plagiobothrys undulatus |
| X Anagallis minimus | Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastridium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | X Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | Y Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| X Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | Y Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | X Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | X Selaginella cinerascens |
| X Bromus rubens | Y Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | X Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | X Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| Y Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Y Chaetopappa aurea | X Lilaea scilloides | X Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Marah macrocarpa</u> |
| Y Cotula coronopifolia | Lotus strigosus | <u>Mimulus</u> |
| X Crassula aquatica | Lupinus bicolor | _____ |
| Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| Y Deschampsia danthonioides | Micropus californicus | _____ |
| Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | Y Muilla clevelandii | _____ |
| X Downingia cuspidata | X Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location NAS Miramar Interior Date 4-10-86 Data by ETB

Notes _____ Pool Number EE 2⁺

- | | | |
|-----------------------------|-----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastrium ventricosum | X Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| X Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | Psilocarphus tenellus |
| Avena fatua | Hemizonia fasciculata | Pterostegia drymaricoides |
| X Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Y Rhus laurina |
| X Brassica nigra | Hordeum glaucum | X Salvia mellifera |
| Brodiaea jolonensis | Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | X Isoetes orcuttii | Scutellaria tuberosa |
| Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | X Juncus sphaerocarpus | Silene gallica |
| X Callitriche marginata | Juncus triformis | X Sisyrinchium bellum |
| Calycadenia tenella | X Lasthenia californica | Sonchus |
| Calochortus splendens | Lasthenia chrysostoma | Spergula arvensis |
| Camissonia cistorta | Lasthenia coronaria | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia glabrata | Stephanomeria virgata |
| Centaurea melitensis | Lepidium lasiocarpum | Y Stipa pulchra |
| Centaureum venustum | X Lilaea scilloides | Stipa lepida |
| Chaetopappa aurea | Linanthus dianthiflorus | Stylocline gnaphalioides |
| Chorizanthe | Linaria canadensis | Trichostema lanceolatum |
| Chlorogalum parviflorum | Lolium perenne | Trifolium |
| Clarkia purpurea | Lomatium dasycarpum | Veronica peregrina |
| Cneoridium dumosum | Lotus hamatus | X Vulpia myuros |
| Conyza canadensis | X Lotus scoparius | _____ |
| Cordylanthus | Lotus strigosus | _____ |
| X Cotula coronopifolia | Y Lupinus bicolor | _____ |
| X Crassula aquatica | Lythrum hyssopifolia | _____ |
| Crassula erecta | Marsilea vestita | _____ |
| Cryptantha intermedia | Micropus californicus | _____ |
| Y Deschampsia danthonioides | Microseris douglasii | _____ |
| X Dichelostemma pulchellum | Montia fontana | _____ |
| Dichondra occidentalis | Muilla clevelandii | _____ |
| Dodecatheon clevelandii | Muilla maritima | _____ |
| X Downingia cuspidata | Myosurus minimus | |
| Elatine brachysperma | Navarretia atractyloides | |
| Eleocharis acicularis | Navarretia prostrata | |
| Eleocharis bella | Navarretia hamata | |
| Y Eleocharis macrostachya | X Ophioglossum californicum | |
| Eremocarpus setigerus | Orcuttia californica | |
| X Eriogonum fasciculatum | | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location NAS Miramar Interior Date 4-10-86 Data by ETB

Notes x GA ✓ GG Pool Number GA⁺GG

- | | | |
|---------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| X Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematociton | X Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | ✓ Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | Lotus scoparius | |
| Cotula coronopifolia | Lotus strigosus | |
| X Crassula aquatica | X Lupinus bicolor | |
| Crassula erecta | ✓ Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | |
| Deschampsia danthonioides | Micropus californicus | |
| Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | X Muilla clevelandii | |
| ✓ Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| ✓ Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location NAS Miramar Interior Date 4-10-86 Data by ETB

Notes _____ Pool Number HH

Achillea millefolium	Eriophyllum confertiflorum	Orthocarpus purpurascens
Adenostoma fasciculatum	Erodium botrys	Phalaris lemmonii
Adolphia californica	Erodium cicutarium	Pilularia americana
Agrostis	X Eryngium aristulatum	Pityrogramma triangularis
Allium haematochiton	Eschscholzia californica	Plagiobothrys acanthocar.
Alopecurus	Ferocactus viridescens	Plagiobothrys undulatus
Anagallis minimus	Filago arizonica	Plantago bigelovii
Antirrhinum	Galium aparine	Plantago erecta
Apiastrum angustifolium	Gastridium ventricosum	X Pogogyne abramsii
Apium leptophyllum	Gnaphalium bicolor	Pogogyne nudiuscula
Aponogeton distans	Gnaphalium palustre	Polypogon monospeiensis
Artemisia californica	Haplopappus venetus	X Psilocarphus brevissimus
Avena barbata	Hedypnois cretica	Psilocarphus tenellus
Avena fatua	Hemizonia fasciculata	Pterostegia drymaricoides
Baccharis sarothroides	Heterotheca grandiflora	Rhus integrifolia
Bloomeria crocea	Holocarpha virgata	Rhus laurina
Brassica nigra	Hordeum glaucum	Salvia mellifera
Brodiaea jolonensis	Hypochoeris glabra	Sanicula bipinnatifida
Brodiaea orcuttii	Isoetes howellii	Scrophularia californica
Bromus diandrus	Isoetes orcuttii	Scutellaria tuberosa
Bromus mollis	Jepsonia parryi	Selaginella cinerascens
Bromus rubens	Juncus bufonius	Sibara virginica
Calandrinia ciliata	Juncus rugulosus	Silene gallica
X Callitriche marginata	Juncus sphaerocarpus	Sisyrinchium bellum
Calycadenia tenella	Juncus triformis	Sonchus
Calochortus splendens	Lasthenia californica	Spergula arvensis
Camissonia cistorta	Lasthenia chrysostoma	Spergularia bocconii
Capsella bursa-pastoris	Lasthenia coronaria	Stephanomeria virgata
Centaurea melitensis	Lasthenia glabrata	X Stipa pulchra
Centaurium venustum	Lepidium lasiocarpum	Stipa lepida
Chaetopappa aurea	X Lilaea scilloides	Stylocline gnaphalioides
Chorizanthe	Linanthus dianthiflorus	Trichostema lanceolatum
Chlorogalum parviflorum	Linaria canadensis	Trifolium
Clarkia purpurea	Lolium perenne	Veronica peregrina
Cneoridium dumosum	Lomatium dasycarpum	Vulpia myuros
Conyza canadensis	Lotus hamatus	_____
Cordylanthus	Lotus scoparius	_____
X Cotula coronopifolia	Lotus strigosus	_____
Crassula aquatica	Lupinus bicolor	_____
Crassula erecta	X Lythrum hyssopifolia	_____
Cryptantha intermedia	Marsilea vestita	_____
X Deschampsia danthonioides	Micropus californicus	_____
Dichelostemma pulchellum	Microseris douglasii	_____
Dichondra occidentalis	Montia fontana	_____
Dodecatheon clevelandii	Muilla clevelandii	_____
X Downingia cuspidata	Muilla maritima	_____
Elatine brachysperma	Myosurus minimus	_____
Eleocharis acicularis	Navarretia atractyloides	_____
Eleocharis bella	Navarretia prostrata	_____
X Eleocharis macrostachya	Navarretia hamata	_____
Eremocarpus setigerus	Ophioglossum californicum	_____
Eriogonum fasciculatum	Orcuttia californica	_____

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Palomar Date 4-22-86 Data by CCP

Notes unmapped pools near Poinsettia Lane Pool Number JJ 2⁺

- | | | |
|---------------------------|---|--|
| Achillea millefolium | Eriophyllum confertiflorum | Orthocarpus purpurascens |
| Adenostoma fasciculatum | X Erodium botrys | X Phalaris lemmonii <i>canonensis</i> |
| Adolphia californica | X Erodium cicutarium | X Pilularia americana |
| Agrostis | X Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | X Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Apiastrum angustifolium | Gastroidium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | X Polypogon monospeliensis |
| Artemisia californica | X Haplopappus venetus | X Psilocarphus brevissimus |
| X Avena barbata | Hedypnois cretica | Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| X Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| X Brassica nigra | X Hordeum glabrum <i>vulgare</i> | Salvia mellifera |
| Brodiaea jolonensis | Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| X Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Selaginella cinerascens |
| X Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| Centaureum venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | X Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| X Conyza canadensis | Lotus hamatus | <u>Sida</u> |
| Cordylanthus | Lotus scoparius | <u>Navarretia cf fossalis?</u> |
| X Cotula coronopifolia | Lotus strigosus | <u>Rumex crispus</u> |
| Crassula aquatica | Lupinus bicolor | <u>Typha</u> |
| X Crassula erecta | X Lythrum hyssopifolia | <u>Distichlis spicata</u> |
| Cryptantha intermedia | X Marsilea vestita | <u>Anagallis arvensis</u> |
| Deschampsia danthonioides | Micropus californicus | <u>Raphanus sativa</u> |
| Dichelostemma pulchellum | Microseris douglasii | <u>Melilotus</u> |
| Dichondra occidentalis | Montia fontana | <u>Scirpus pungens</u> |
| Dodecatheon clevelandii | Muilla clevelandii | |
| Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| X Eleocharis macrostachya | Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
 Compiled by E. Bauder, Feb. 1986

Location Lake Murray Date 5-28-86 Data by ETB

Notes _____ Pool Number KK⁺

- | | | |
|---------------------------|----------------------------|----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | X Orthocarpus purpurascens |
| Adenostoma fasciculatum | Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| Anagallis minimus | Filago arizonica | X Plantago bigelovii |
| Antirrhinum | Galium aparine | Plantago erecta |
| Aplastrum angustifolium | Gastridium ventricosum | Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | Gnaphalium palustre | Polypogon monospeliensis |
| Artemisia californica | Haplopappus venetus | X Psilocarphus brevissimus |
| Avena barbata | Hedypnois cretica | X Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| Bromus mollis | Jepsonia parryi | X Selaginella cinerascens |
| Bromus rubens | X Juncus bufonius | Sibara virginica |
| Calandrinia ciliata | Juncus rugulosus | Silene gallica |
| Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | X Stipa pulchra |
| X Centaurium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | X Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | X Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Viguiera laciniata</u> |
| Cotula coronopifolia | Lotus strigosus | _____ |
| X Crassula aquatica | Lupinus bicolor | _____ |
| Crassula erecta | X Lythrum hyssopifolia | _____ |
| Cryptantha intermedia | Marsilea vestita | _____ |
| Deschampsia danthonioides | Micropus californicus | _____ |
| Dichelostemma pulchellum | Microseris douglasii | _____ |
| Dichondra occidentalis | Montia fontana | _____ |
| Dodecatheon clevelandii | Muilla clevelandii | _____ |
| Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

CHECKLIST OF VERNAL POOL FLORA -- SAN DIEGO COUNTY, CA.
Compiled by E. Bauder, Feb. 1986

Location Amaya Drive Date 4-7-86 Data by ETB, CRS

Notes _____ Pool Number LL⁺

- | | | |
|---------------------------|----------------------------|-----------------------------|
| Achillea millefolium | Eriophyllum confertiflorum | Y Orthocarpus purpurascens |
| Adenostoma fasciculatum | X Erodium botrys | Phalaris lemmonii |
| Adolphia californica | Erodium cicutarium | Pilularia americana |
| Agrostis | Eryngium aristulatum | Pityrogramma triangularis |
| Allium haematochiton | Eschscholzia californica | Plagiobothrys acanthocar. |
| Alopecurus | Ferocactus viridescens | Plagiobothrys undulatus |
| X Anagallis minimus | Filago arizonica | Plantago bigelovii |
| Antirrhinum | Galium aparine | Y Plantago erecta |
| Aplastrum angustifolium | Gastroidium ventricosum | Y Pogogyne abramsii |
| Apium leptophyllum | Gnaphalium bicolor | Pogogyne nudiuscula |
| Aponogeton distans | X Gnaphalium palustre | Y Polypogon monospermiensis |
| Y Artemisia californica | Haplopappus venetus | Y Psilocarphus brevissimus |
| Y Avena barbata | Hedypnois cretica | Psilocarphus tenellus |
| Avena fatua | X Hemizonia fasciculata | Pterostegia drymaricoides |
| Y Baccharis sarothroides | Heterotheca grandiflora | Rhus integrifolia |
| Bloomeria crocea | Holocarpha virgata | X Rhus laurina |
| Brassica nigra | Hordeum glaucum | Salvia mellifera |
| Brodiaea jolonensis | X Hypochoeris glabra | Sanicula bipinnatifida |
| X Brodiaea orcuttii | Isoetes howellii | Scrophularia californica |
| Y Bromus diandrus | Isoetes orcuttii | Scutellaria tuberosa |
| X Bromus mollis | Jepsonia parryi | Y Selaginella cinerascens |
| Y Bromus rubens | X Juncus bufonius | Sibara virginica |
| X Calandrinia ciliata | Juncus rugulosus | X Silene gallica |
| X Callitriche marginata | Juncus sphaerocarpus | Sisyrinchium bellum |
| Calycadenia tenella | Juncus triformis | Sonchus |
| X Calochortus splendens | Lasthenia californica | Spergula arvensis |
| Camissonia cistorta | Lasthenia chrysostoma | Spergularia bocconii |
| Capsella bursa-pastoris | Lasthenia coronaria | Stephanomeria virgata |
| Centaurea melitensis | Lasthenia glabrata | Stipa pulchra |
| Centaureium venustum | Lepidium lasiocarpum | Stipa lepida |
| Chaetopappa aurea | Lilaea scilloides | X Stylocline gnaphalioides |
| Chorizanthe | Linanthus dianthiflorus | Trichostema lanceolatum |
| X Chlorogalum parviflorum | Linaria canadensis | Trifolium |
| Clarkia purpurea | Lolium perenne | Veronica peregrina |
| Cneoridium dumosum | Lomatium dasycarpum | Y Vulpia myuros |
| Conyza canadensis | Lotus hamatus | |
| Cordylanthus | X Lotus scoparius | <u>Opuntia prolif.</u> |
| Cotula coronopifolia | Lotus strigosus | <u>Opuntia littoralis</u> |
| X Crassula aquatica | Y Lupinus bicolor | <u>Corythrogyne</u> |
| X Crassula erecta | X Lythrum hyssopifolia | |
| Cryptantha intermedia | Marsilea vestita | |
| Deschampsia danthonioides | Micropus californicus | |
| Dichelostemma pulchellum | Microseris douglasii | |
| Dichondra occidentalis | Montia fontana | |
| Dodecatheon clevelandii | Y Muilla clevelandii | |
| Downingia cuspidata | Muilla maritima | |
| Elatine brachysperma | Myosurus minimus | |
| Eleocharis acicularis | Navarretia atractyloides | |
| Eleocharis bella | Navarretia prostrata | |
| Eleocharis macrostachya | X Navarretia hamata | |
| Eremocarpus setigerus | Ophioglossum californicum | |
| X Eriogonum fasciculatum | Orcuttia californica | |

Appendix 3. Field survey forms, all pool groups. See text for explanation of methods and codes. Pool group numbers with a "+" following are newly mapped or renumbered. See Appendix 1 for old and new numbers.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: TIERRASANTA
: _____

City Code: _____

F&G Code: A 1+

Investigators: C. R. Scheidlinger
: _____

Recon Code: A 1

Map Pg#: 46: D 5

Date Of Survey: 7/10/86

A. # Pools in F&G Report: _____ #in Recon Report: 5 # Observed(if changed): 3

Discussion: _____
: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large:___ Medium:___ Small: X
Pool Size Diversity: High:___ Med:___ Low: X
Pool Depth: Deep:___ Med:___ Shallow: X
Pool Depth Diversity: High:___ Med:___ Low: X
Cobble Size: Large:___ Med:___ Small:___ None: X
Associated Habitat: Mixed Chaparral:___
Chamise: X Coastal sage scrub: X grassland:___
Other: _____

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High:___ Medium:___ Low: X Assoc Habitat: High:___ Med:___ Low: X
ORV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing:___
Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: 1/2 mile Dist. to Natural Open Space: adjacent
Connection to Natural Open Space: X Canyon: X Mesatop: X
If yes, Open Space Protected:___ Open Space Unprotected: X
Surrounding Land Use: Residential, Site of proposed Tierrasanta
: Norte project.

F. Management Recommendations: _____
: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: TIERRASANTA

City Code: _____

: _____

F&G Code: A 3

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 46:C 6

Date Of Survey: 4/8/86

A. # Pools in F&G Report: 3 #in Recon Report: _____ # Observed(if changed): _____

Discussion: These pools were not located.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: _____

EA: _____

Pool Depth: Deep: _____ Med: _____ Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: _____

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: _____ Assoc Habitat: High: _____ Med: _____ Low: X

ORV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: _____ Mesatop: X

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Residential. This site proposed for a

: school.

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: TIERRASANTA

City Code: A II

: _____

F&G Code: A 4

Investigators: Ellen T. Bauder

Recon Code: A II

: Carla R. Scheidlinger

Map Pg#: 46:C 4-5

Date Of Survey: 4/8/86

A. # Pools in F&G Report: 39 #in Recon Report: 26 # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: X Small: X

PA: A (+)

Pool Size Diversity: High: X Med: ___ Low: ___

EA: _____

Pool Depth: Deep: ___ Med: X Shallow: X

PN: _____

Pool Depth Diversity: High: X Med: ___ Low: ___

OC: _____

Cobble Size: Large: X Med: X Small: X None: ___

NF: _____

BO: A (+)

Associated Habitat: Mixed Chaparral: ___

IO: A (0)

Chamise: X Coastal sage scrub: ___ grassland: X

MF: _____

MA: _____

Other: Many weedy species.

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: X Assoc Habitat: High: ___ Med: ___ Low: X

ORV Damage: X Trash/Dumping: X Area Brushed: X Grazing: ___

Comments: Dumping & vehicle damage restricted to very western portion.

: Access by dirt road.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: ___

If yes, Open Space Protected: X Open Space Unprotected: X

Surrounding Land Use: Miramar NAS to n., Mission Trails Park to e.

: proposed SR 52 to s. Currently residential to south.

F. Management Recommendations: Protect from freeway construction and

: its impact on drainage. Fence after constr., if necessary.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA NORTH
: _____

City Code: Bc
F&G Code: B 1

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: _____
Map Pg#: 35: C 6

Date Of Survey: 4/17/86

A. # Pools in F&G Report: 4 #in Recon Report: 0 # Observed(if changed): 0

Discussion: These pools are gone.
: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large:___ Medium:___ Small:___
Pool Size Diversity: High:___ Med:___ Low:___
Pool Depth: Deep:___ Med:___ Shallow:___
Pool Depth Diversity: High:___ Med:___ Low:___
Cobble Size: Large:___ Med:___ Small:___ None:___
Associated Habitat: Mixed Chaparral:___
Chamise:___ Coastal sage scrub:___ grassland:___
Other: _____

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High:___ Medium:___ Low:___ Assoc Habitat: High:___ Med:___ Low:___
ORV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing:___

Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon:___ Mesatop:___
If yes, Open Space Protected:___ Open Space Unprotected:___

Surrounding Land Use: _____
: _____

F. Management Recommendations: _____
: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA NORTH

City Code: Bc

: _____

F&G Code: B 2-3

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 35:C 6

Date Of Survey: 4/17/86

A. # Pools in F&G Report: 2 #in Recon Report: 0 # Observed(if changed): 0

Discussion: These pools have been lost to residential and road
construction.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:

PA: _____

Pool Size Diversity: High: Med: Low:

EA: _____

Pool Depth: Deep: Med: Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

DC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: grassland:

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA NORTH

City Code: Bc

: _____

F&G Code: B 4

Investigators: Ellen T. Bauder

Recon Code: B IV

: Carla R. Scheidlinger

Map Pg#: 39: C 1

Date Of Survey: 4/17/86

A. # Pools in F&G Report: 3 #in Recon Report: # Observed(if changed): 0

Discussion: These pools are gone.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:

PA: _____

Pool Size Diversity: High: Med: Low:

EA: _____

Pool Depth: Deep: Med: Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

OC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: grassland:

ID: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: Mesatop:

If yes, Open Space Protected: Open Space Unprotected:

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA NORTH
: _____

City Code: Bab
F&G Code: B 5

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: B VI
Map Pg#: 39: B 1

Date Of Survey: 4/17/86

A. # Pools in F&G Report: 1 #in Recon Report: 1 # Observed(if changed): _____

Discussion: One very large pool area.
: _____

B. Site Description:

Pool Size: Large: X Medium: Small:
Pool Size Diversity: High: Med: Low: X
Pool Depth: Deep: X Med: Shallow:
Pool Depth Diversity: High: Med: Low: X
Cobble Size: Large: Med: Small: None: X
Associated Habitat: Mixed Chaparral:
Chamise: X Coastal sage scrub: grassland:
Other: _____

C. Species Presence/Absence

PA: A (+)
EA: _____
PN: _____
OC: _____
NF: _____
BG: A (+)
ID: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: Medium: Low: X Assoc Habitat: High: Med: Low: X
ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: Will become increasingly vulnerable as construction reaches
this area from the east.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent
Connection to Natural Open Space: X Canyon: X Mesatop: X
If yes, Open Space Protected: X Open Space Unprotected: X
Surrounding Land Use: Residential development planned 100 ft to
east. Publicly-owned land to north and west.

F. Management Recommendations: Fence. Protect from construction
effects on watershed.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA NORTH
: _____

City Code: Bab
F&G Code: B 6

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: B IV
Map Pg#: 39: B 1

Date Of Survey: 4/17/86

A. # Pools in F&G Report: 1 #in Recon Report: # Observed(if changed):

Discussion: Unusual for its complete natural isolation.
: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: X Small:
Pool Size Diversity: High: Med: Low: X
Pool Depth: Deep: Med: X Shallow:
Pool Depth Diversity: High: Med: Low: X
Cobble Size: Large: Med: X Small: X None:
Associated Habitat: Mixed Chaparral:
Chamise: X Coastal sage scrub: grassland:
Other: White clay soil.

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
ID: C
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: Medium: Low: X Assoc Habitat: High: Med: Low: X
ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: Pool surrounded by dense stand of undisturbed chamise
: chaparral.

E. Site Defensibility:

Dist. to Travelled Roads: <1/2 mile Dist. to Natural Open Space: adjacent
Connection to Natural Open Space: X Canyon: X Mesatop: X
If yes, Open Space Protected: X Open Space Unprotected:
Surrounding Land Use: Los Penasquitos Canyon Preserve to north.
: _____

F. Management Recommendations: If linked directly to B5 and B 7-8

: pools in a preserve, it should require no spec. protect. measures.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA NORTH

City Code: Bab

: _____

F&G Code: B 7-8

Investigators: Ellen T. Bauder

Recon Code: B V

: Carla R. Scheidlinger

Map Pg#: 35: B 1

Date Of Survey: 4/17/86

A. # Pools in F&G Report: 10 # in Recon Report: # Observed (if changed):

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: Medium: X Small: X

Pool Size Diversity: High: Med: X Low:

Pool Depth: Deep: Med: X Shallow: X

Pool Depth Diversity: High: Med: X Low:

Cobble Size: Large: Med: Small: X None:

Associated Habitat: Mixed Chaparral:

Chamise: X Coastal sage scrub: grassland:

Other: _____

C. Species Presence/Absence

PA: A (+)

EA: _____

PN: _____

OC: _____

NF: _____

BO: C (o)

IO: C (o)

MF: U (-)

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: X Medium: Low: X Assoc Habitat: High: Med: Low: X

ORV Damage: X Trash/Dumping: Area Brushed: Grazing:

Comments: New and extensive damage by grading vehicle as well as cars or
trucks. Dirt road bisects area.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: X Open Space Unprotected: X

Surrounding Land Use: Presently natural mesatop and canyons. Major
road and residential development planned for the area.

F. Management Recommendations: Fence. Minimize impacts of future

construction. Tie in with proposed preserves to north.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA NORTH

City Code: Bc

: _____

F&G Code: B 2-10

Investigators: Ellen T. Bauder

Recon Code: B III

: Carla R. Scheidlinger

Map Pg#: 35: D 6

Date Of Survey: 4/17/86

A. # Pools in F&G Report: 5 # in Recon Report: # Observed (if changed): 0

Discussion: These pools are gone due to residential and road
construction.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:

PA: _____

Pool Size Diversity: High: Med: Low:

EA: _____

Pool Depth: Deep: Med: Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

OC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: grassland:

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA NORTH

City Code: Bd

: _____

F&G Code: B 11

Investigators: Ellen T. Bauder

Recon Code: B II

: Carla R. Scheidlinger

Map Pg#: 39: D 1

Date Of Survey: 4/17/86

A. # Pools in F&G Report: 5 #in Recon Report: 8 # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: Medium: X Small: X

Pool Size Diversity: High: Med: Low: X

Pool Depth: Deep: Med: Shallow: X

Pool Depth Diversity: High: Med: Low: X

Cobble Size: Large: Med: X Small: None:

Associated Habitat: Mixed Chaparral:

Chamise: X Coastal sage scrub: grassland: X

Other: _____

C. Species Presence/Absence

PA: C (o)

EA: _____

PN: _____

OC: _____

NF: _____

BO: C (o)

IO: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: X Low: Assoc Habitat: High: X Med: Low:

ORV Damage: X Trash/Dumping: X Area Brushed: X Grazing:

Comments: Extensive dumping especially of yard trimmings.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Residential, school yard.

: _____

F. Management Recommendations: Residential development is proposed for

: this land.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA NORTH
: _____

City Code: Be

F&G Code: B 12

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 35: E 6

Date Of Survey: 4/17/86

A. # Pools in F&G Report: 3 #in Recon Report: _____ # Observed(if changed): _____

Discussion: Appear to be 5-10 pools in this area.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: X Small: X

PA: C (o)

Pool Size Diversity: High: _____ Med: X Low: _____

EA: C (-), U (-)

Pool Depth: Deep: _____ Med: X Shallow: X

PN: _____

Pool Depth Diversity: High: _____ Med: X Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: X None: _____

NF: _____

BO: C (-)

Associated Habitat: Mixed Chaparral: _____

IO: C (-)

Chamise: X Coastal sage scrub: _____ grassland: X

MF: _____

MA: _____

Other: _____

Comments: _____

D. Site Disturbance:

Pools: High: X Medium: X Low: X Assoc Habitat: High: X Med: X Low: _____

ORV Damage: X Trash/Dumping: X Area Brushed: _____ Grazing: _____

Comments: Many truckloads of dirt and concrete debris have been dumped

: here. Some pools remain in excellent condition even so.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Residential.

F. Management Recommendations: Residential development is proposed for

: this site.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA NORTH

City Code: Be

: _____

F&G Code: B 13

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 35:E 6

Date Of Survey: 4/17/96

A. # Pools in F&G Report: 2 # in Recon Report: 8 # Observed (if changed): 5

Discussion: Appear to be 5 marginal pools.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:

PA: _____

Pool Size Diversity: High: Med: Low:

EA: _____

Pool Depth: Deep: Med: Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

OC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: grassland:

ID: _____

Other: _____

MF: U (-)

MA: _____

Comments: EA previously

: found here.

: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:

ORV. Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: Adjacent to large recently burned area. Access by dirt road.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent. Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: Canyon: Mesatop:

If yes, Open Space Protected: Open Space Unprotected:

Surrounding Land Use: Residential to south.

: _____

F. Management Recommendations: Residential development planned for

: this site.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA CENTRAL

City Code: Cb

: _____

F&G Code: C 1

Investigators: Ellen T. Bauder

Recon Code: C III

: Carla R. Scheidlinger

Map Pg#: 39: C 3

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 1 #in Recon Report: 20 # Observed(if changed): 0.3

Discussion: This can be considered one large pool or a cluster of
smaller pools.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: Small:
Pool Size Diversity: High: Med: Low: X
Pool Depth: Deep: X Med: Shallow:
Pool Depth Diversity: High: Med: Low:
Cobble Size: Large: Med: Small: None: X
Associated Habitat: Mixed Chaparral:
Chamise: Coastal sage scrub: grassland: X
Other: Mound remnants present.

PA: C
EA: C
PN:
OC:
NF:
BO: A
IO: C
MF:
MA:
Comments:
:
:

D. Site Disturbance:

Pools: High: Medium: Low: X Assoc Habitat: High: Med: X Low:
ORV Damage: Trash/Dumping: Area Brushed: X Grazing:
Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____
Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____
If yes, Open Space Protected: _____ Open Space Unprotected: _____
Surrounding Land Use: Residential
: _____

F. Management Recommendations: A residential development is planned
for this site.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA CENTRAL

City Code: Cf, Cc

: _____

F&G Code: C 2-8

Investigators: Ellen T. Bauder

Recon Code: C IV-V

: Carla R. Scheidlinger

Map Pg#: 39: C/D 3

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 38 #in Recon Report: _____ # Observed(if changed): 0

Discussion: Pools C 2,5,6-8 eliminated by construction. Pools C 3-4
: are behind a construction fence.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: _____

EA: _____

Pool Depth: Deep: _____ Med: _____ Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: _____

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: _____ Assoc Habitat: High: _____ Med: _____ Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA CENTRAL

City Code: Cf, Cd

: _____

F&G Code: C 9-10

Investigators: Ellen T. Bauder

Recon Code: C IV

: Carla R. Scheidlinger

Map Pg#: 39:C/D 2

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 10 # in Recon Report: 24 # Observed (if changed): 6

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: Medium: X Small: X

Pool Size Diversity: High: Med: X Low:

Pool Depth: Deep: Med: X Shallow: X

Pool Depth Diversity: High: Med: X Low:

Cobble Size: Large: Med: Small: None:

Associated Habitat: Mixed Chaparral:

Chamise: X Coastal sage scrub: grassland:

Other: _____

C. Species Presence/Absence

PA: C (o)

EA: U (-)

PN: _____

OC: _____

NF: _____

BO: U (-)

IO: C (-)

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: X Medium: X Low: Assoc Habitat: High: Med: X Low:

ORV Damage: Trash/Dumping: X Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop:

If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Residential.

: _____

F. Management Recommendations: Residential development

: planned for this site.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA CENTRAL

City Code: Cd

: _____

F&G Code: C11-16

Investigators: Ellen T. Bauder

Recon Code: C III

: Carla R. Scheidlinger

Map Pg#: 39: C/D 2

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 39 #in Recon Report: _____ # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: ___ Medium: X Small: X

Pool Size Diversity: High: ___ Med: X Low: ___

Pool Depth: Deep: X Med: X Shallow: ___

Pool Depth Diversity: High: ___ Med: X Low: ___

Cobble Size: Large: ___ Med: X Small: ___ None: ___

Associated Habitat: Mixed Chaparral: ___

Chamise: ___ Coastal sage scrub: ___ grassland: X

Other: _____

C. Species Presence/Absence

PA: U (o)

EA: U (-)

PN: _____

OC: _____

NF: _____

BO: C (o)

IO: C (o)

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: X Medium: ___ Low: ___ Assoc Habitat: High: X Med: ___ Low: ___

ORV Damage: X Trash/Dumping: ___ Area Brushed: X Grazing: ___

Comments: Heavy equipment tread marks. Used by children with dirt bikes

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: ___ Mesatop: X

If yes, Open Space Protected: X Open Space Unprotected: ___

Surrounding Land Use: Residential to n. & e. Neighborhood park to w

: _____

F. Management Recommendations: Residential development planned to west.

: Site designated for school.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA CENTRAL

City Code: Ca

: _____

F&G Code: C 17

Investigators: Ellen T. Bauder

Recon Code: C II

: Carla R. Scheidlinger

Map Pg#: 39: D 2

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 17 #in Recon Report: 18 # Observed(if changed): 0

Discussion: These pools are gone due to residential construction.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:

PA: _____

Pool Size Diversity: High: Med: Low:

EA: _____

Pool Depth: Deep: Med: Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

OC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: grassland:

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: Mesatop:

If yes, Open Space Protected: Open Space Unprotected:

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA CENTRAL

City Code: Ca

: _____

F&G Code: C 18

Investigators: Ellen T. Bauder

Recon Code: C II

: Carla R. Scheidlinger

Map Pg#: 39: C 2

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 9 #in Recon Report: 9 # Observed(if changed): 6

Discussion: _____
: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: X Small: X

PA: C (+)

Pool Size Diversity: High: Med: X Low:

EA: _____

Pool Depth: Deep: Med: Shallow: X

PN: _____

Pool Depth Diversity: High: Med: Low: X

OC: _____

Cobble Size: Large: Med: Small: X None:

NF: _____

Associated Habitat: Mixed Chaparral: X
Chamise: X Coastal sage scrub: grassland:

BO: C (-)

IO: C (o)

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: X Low: X Assoc Habitat: High: Med: X Low: X

ORV Damage: X Trash/Dumping: X Area Brushed: Grazing:

Comments: Recent fire to s. Sprinkler runoff from surrounding banks.

: debris from Eucalypts on banks, and siltation are problems.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop:

If yes, Open Space Protected: X Open Space Unprotected:

Surrounding Land Use: This 2.2 ac. site is set in the midst of a
: residential neighborhood, connects to a neighborhood park.

F. Management Recommendations: Remove sprinklers & exotics. Maintain

: fence. Involve local community. Erect durable, informative display.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA CENTRAL

City Code: C 19

: _____

F&G Code: C 19

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 39: D 1

Date Of Survey: 4/17/86

A. # Pools in F&G Report: 1 # in Recon Report: _____ # Observed (if changed): 0

Discussion: Inaccessible. Appears to have been lost with construc-
tion of Canyon Country Unit 2.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: ___ Small: ___

PA: _____

Pool Size Diversity: High: ___ Med: ___ Low: ___

EA: _____

Pool Depth: Deep: ___ Med: ___ Shallow: ___

PN: _____

Pool Depth Diversity: High: ___ Med: ___ Low: ___

OC: _____

Cobble Size: Large: ___ Med: ___ Small: ___ None: ___

NF: _____

Associated Habitat: Mixed Chaparral: ___

BO: _____

Chamise: ___ Coastal sage scrub: ___ grassland: ___

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: ___ Assoc Habitat: High: ___ Med: ___ Low: ___

ORV Damage: ___ Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: ___ Mesatop: ___

If yes, Open Space Protected: ___ Open Space Unprotected: ___

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA CENTRAL

City Code: Cb

: _____

F&G Code: C20-21

: C 25

Investigators: Ellen T. Bauder

Recon Code: C VIII

: Carla R. Scheidlinger

Map Pg#: 39: C 2-3

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 32 # in Recon Report: 20 # Observed (if changed): 0

Discussion: Behind construction fence. Residential development
: planned.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:

PA: _____

Pool Size Diversity: High: Med: Low:

EA: _____

Pool Depth: Deep: Med: Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

OC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: grassland:

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: Mesatop:

If yes, Open Space Protected: Open Space Unprotected:

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA CENTAAL
: _____

City Code: Cb

F&G Code: C 22

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: C VI

Map Pg#: 39: C 3

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 13 #in Recon Report: 5 # Observed(if changed): 5

Discussion: Recon considers a cluster as one group (43).
: _____

B. Site Description:

Pool Size: Large: Medium: Small:
Pool Size Diversity: High: Med: Low:
Pool Depth: Deep: Med: Shallow:
Pool Depth Diversity: High: Med: Low:
Cobble Size: Large: Med: Small: None:
Associated Habitat: Mixed Chaparral:
Chamise: Coastal sage scrub: grassland:
Other: _____

C. Species Presence/Absence

PA: U (-)
EA: A (-)
PN: _____
OC: _____
NF: _____
BO: C (o)
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:
ORV Damage: Trash/Dumping: Area Brushed: Grazing:
Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____
Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____
If yes, Open Space Protected: _____ Open Space Unprotected: _____
Surrounding Land Use: Residential.
: _____

F. Management Recommendations: Residential development planned for
: this site.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA CENTRAL

City Code: Cb

: _____

F&G Code: C23-24

Investigators: Ellen T. Bauder

Recon Code: C IX

: Carla R. Scheidlinger

Map Pg#: 39: C 3-4

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 18 #in Recon Report: 6 # Observed(if changed): 9

Discussion: C 23 graded. C 24 inaccessible. No sensitive taxa
: reported from C 24.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:

PA: _____

Pool Size Diversity: High: Med: Low:

EA: _____

Pool Depth: Deep: Med: Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

OC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: grassland:

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: Mesatop:

If yes, Open Space Protected: Open Space Unprotected:

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA CENTRAL
: _____

City Code: Cd
F&G Code: C 26

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: _____
Map Pg#: 39: C 2

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 9 #in Recon Report: 0 # Observed(if changed): _____

Discussion: Difficult to distinguish these pools from surrounding
pool groups C 11-16.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large:___ Medium:___ Small:___
Pool Size Diversity: High:___ Med:___ Low:___
Pool Depth: Deep:___ Med:___ Shallow:___
Pool Depth Diversity: High:___ Med:___ Low:___
Cobble Size: Large:___ Med:___ Small:___ None:___
Associated Habitat: Mixed Chaparral:___
Chamise:___ Coastal sage scrub:___ grassland:___
Other: _____

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High:___ Medium:___ Low:___ Assoc Habitat: High:___ Med:___ Low:___
ORV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing:___
Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____
Connection to Natural Open Space: _____ Canyon:___ Mesatop:___
If yes, Open Space Protected:___ Open Space Unprotected:___
Surrounding Land Use: _____
: _____

F. Management Recommendations:

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA CENTRAL

City Code: _____

: _____

F&G Code: C 27⁺

Investigators: C.R. Scheidlinger

Recon Code: _____

: _____

Map Pg#: 40: A 2

Date Of Survey: 7/10/86

A. # Pools in F&G Report: _____ #in Recon Report: _____ # Observed(if changed): >6

Discussion: Not previously mapped.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: X Small: X

PA: _____

Pool Size Diversity: High: ___ Med: ___ Low: X

EA: _____

Pool Depth: Deep: ___ Med: X Shallow: X

PN: _____

Pool Depth Diversity: High: ___ Med: ___ Low: X

OC: _____

Cobble Size: Large: ___ Med: ___ Small: ___ None: X

NF: _____

Associated Habitat: Mixed Chaparral: ___

BO: _____

Chamise: X Coastal sage scrub: X grassland: X

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: X Low: ___ Assoc Habitat: High: ___ Med: X Low: ___

ORV Damage: X Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: 1/2 mile

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Commercial and residential. Site fenced.

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA SOUTH

City Code: Da

: _____

F&G Code: D 1

Investigators: Ellen T. Bauder

Recon Code: D III

: Carla R. Scheidlinger

Map Pg#: 39: C 4

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 3 #in Recon Report: 10 # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size: Large:___ Medium:___ Small: X

Pool Size Diversity: High:___ Med:___ Low: X

Pool Depth: Deep:___ Med:___ Shallow: X

Pool Depth Diversity: High:___ Med:___ Low: X

Cobble Size: Large:___ Med:___ Small:___ None: X

Associated Habitat: Mixed Chaparral: X

Chamise: X Coastal sage scrub:___ grassland:___

Other: _____

C. Species Presence/Absence

PA: _____

EA: _____

PN: _____

OC: _____

NF: _____

BO: _____

IO: C (o)

MF: C (+)

MA: _____

Comments: PA found in

:D 1 previously

: _____

D. Site Disturbance:

Pools: High:___ Medium:___ Low: X Assoc Habitat: High:___ Med: X Low:___

ORV Damage:___ Trash/Dumping: X Area Brushed:___ Grazing:___

Comments: There is a dirt road through the area.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon:___ Mesatop: X

If yes, Open Space Protected:___ Open Space Unprotected: X

Surrounding Land Use: Canyon to south has sand and gravel mining.

: _____

F. Management Recommendations: This area has a resource extraction

:permit until 3/1/2015.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA SOUTH

City Code: Da

: _____

F&G Code: D 3

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 39: C 4

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 1 #in Recon Report: 0 # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: ___ Small: X

Pool Size Diversity: High: ___ Med: ___ Low: X

Pool Depth: Deep: ___ Med: ___ Shallow: X

Pool Depth Diversity: High: ___ Med: ___ Low: X

Cobble Size: Large: ___ Med: ___ Small: ___ None: X

Associated Habitat: Mixed Chaparral: X

Chamise: X Coastal sage scrub: ___ grassland: X

Other: _____

PA: _____

EA: _____

PN: _____

OC: _____

NF: _____

BO: _____

IO: C

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: X Medium: ___ Low: ___ Assoc Habitat: High: ___ Med: ___ Low: X

ORV Damage: X Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: A dirt road runs through the pool. It is nearly destroyed.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: in one Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: ___ Mesatop: X

If yes, Open Space Protected: ___ Open Space Unprotected: X

Surrounding Land Use: _____

: _____

F. Management Recommendations: This area has a resource extraction

: permit until 3/1/2015.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA SOUTH

City Code: Da

: _____

F&G Code: D 2&4

Investigators: Ellen T. Bauder

Recon Code: D III

: Carla R. Scheidlinger

Map Pg#: 39: C 4

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 2 #in Recon Report: 1 # Observed(if changed): 0

Discussion: The only pool remnant is in the ruts of a dirt road.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:

PA: _____

Pool Size Diversity: High: Med: Low:

EA: _____

Pool Depth: Deep: Med: Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

OC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: grassland:

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: X Medium: Low: Assoc Habitat: High: X Med: Low:

ORV Damage: X Trash/Dumping: Area Brushed: X Grazing:

Comments: Area has been disced. Many heavy equipment tread marks.

: Dirt road through area.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: Mesatop: X

If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Resource extraction in canyon to south.

: _____

F. Management Recommendations: This site has a resource extraction

: permit until 3/1/2015.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA SOUTH

City Code: Db

: _____

F&G Code: D 5-8

Investigators: Ellen T. Bauder

Recon Code: D II

: Carla R. Scheidlinger

Map Pg#: 39: D 4

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 34 #in Recon Report: 48 # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: Medium: X Small: X

Pool Size Diversity: High: X Med: Low:

Pool Depth: Deep: Med: X Shallow: X

Pool Depth Diversity: High: Med: X Low:

Cobble Size: Large: Med: Small: None: X

Associated Habitat: Mixed Chaparral: X

Chamise: X Coastal sage scrub: grassland:

Other: _____

C. Species Presence/Absence

PA: C (o)

EA: C (o) A (-)

PN: _____

OC: _____

NF: _____

BO: C (o)

IO: C (o)

MF: C (-)

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: X Low: X Assoc Habitat: High: Med: X Low: X

ORV Damage: Trash/Dumping: X Area Brushed: X Grazing:

Comments: Plowed strip separates from natural canyon slope to south and

: residential back yard fences to north. Site fenced.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Residential to n., resource extraction in

: canyon to s., proposed industrial park to east.

F. Management Recommendations: Maintain fence. Assure uses of adjacent

: property do not impact watershed. Protect steep slope to south.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA SOUTH

City Code: D9-15

: _____

F&G Code: D 9-15

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 39: D3-4

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 45 #in Recon Report: _____ # Observed(if changed): 0

Discussion: These pools have all been destroyed by residential
: construction.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: ___ Small: ___

PA: _____

Pool Size Diversity: High: ___ Med: ___ Low: ___

EA: _____

Pool Depth: Deep: ___ Med: ___ Shallow: ___

PN: _____

Pool Depth Diversity: High: ___ Med: ___ Low: ___

OC: _____

Cobble Size: Large: ___ Med: ___ Small: ___ None: ___

NF: _____

Associated Habitat: Mixed Chaparral: ___

BO: _____

Chamise: ___ Coastal sage scrub: ___ grassland: ___

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: ___ Assoc Habitat: High: ___ Med: ___ Low: ___

ORV Damage: ___ Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: ___ Mesatop: ___

If yes, Open Space Protected: ___ Open Space Unprotected: ___

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA SOUTH

City Code: D 16

: _____

F&G Code: D 16

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 39: D 4

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 5 #in Recon Report: 3 # Observed(if changed): 3

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: ___ Small: X

PA: C (+)

Pool Size Diversity: High: ___ Med: ___ Low: X

EA: _____

Pool Depth: Deep: ___ Med: ___ Shallow: X

PN: _____

Pool Depth Diversity: High: ___ Med: ___ Low: X

OC: _____

Cobble Size: Large: ___ Med: ___ Small: X None: ___

NF: _____

Associated Habitat: Mixed Chaparral: X

BO: C (o)

Chamise: X Coastal sage scrub: ___ grassland: ___

ID: _____

MF: _____

MA: _____

Other: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: X Low: ___ Assoc Habitat: High: ___ Med: X Low: ___

ORV Damage: ___ Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: Ditches cut in pool edges apparently to drain water.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: not access Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: ___

If yes, Open Space Protected: ___ Open Space Unprotected: X

Surrounding Land Use: This small site is wedged in between

residences north and a canyon to the s. Indus.Pk planned to east.

F. Management Recommendations: Warn neighbors about trenching.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MESA SOUTH

City Code: D17-20

: _____

F&G Code: D17-20

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 39: D 3

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 40 #in Recon Report: _____ # Observed(if changed): 0

Discussion: These pools were destroyed by residential construction.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: _____

EA: _____

Pool Depth: Deep: _____ Med: _____ Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: _____

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: _____ Assoc Habitat: High: _____ Med: _____ Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRA MRSA SOUTH

City Code: Dc

: _____

F&G Code: D21-25

Investigators: Ellen T. Bauder

Recon Code: D I

: Carla R. Scheidlinger

Map Pg#: 39:D/E 4

Date Of Survey: 4/16/86

A. # Pools in F&G Report: 24 #in Recon Report: 23 # Observed(if changed): 0

Discussion: These pools were disced. An industrial park is proposed
for the site.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:

PA: _____

Pool Size Diversity: High: Med: Low:

EA: _____

Pool Depth: Deep: Med: Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

OC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: grassland:

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: KEARNY VILLA SOUTH
: _____

City Code: E

F&G Code: E1-3.5

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 45: E 6

Date Of Survey: 4/7/86

A. # Pools in F&G Report: 14 #in Recon Report: _____ # Observed(if changed): 0

Discussion: These pools were destroyed by development of industrial
: parks.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: _____

EA: _____

Pool Depth: Deep: _____ Med: _____ Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grasslands: _____

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: _____ Assoc Habitat: High: _____ Med: _____ Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: KEARNY VILLA SOUTH

City Code: E

: _____

F&G Code: E 4

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 45: E 5

Date Of Survey: 4/7/86

A. # Pools in F&G Report: 16 #in Recon Report: _____ # Observed(if changed): 5

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: _____ Medium: X Small: X
Pool Size Diversity: High: _____ Med: X Low: _____

Pool Depth: Deep: X Med: X Shallow: X
Pool Depth Diversity: High: X Med: _____ Low: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

Associated Habitat: Mixed Chaparral: _____
Chamise: _____ Coastal sage scrub: X grassland: X

Other: _____

C. Species Presence/Absence

PA: C (o)

EA: C (o)

PN: _____

OC: _____

NF: _____

BO: C (-)

IO: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: X Medium: X Low: _____ Assoc Habitat: High: X Med: _____ Low: _____
ORV Damage: _____ Trash/Dumping: X Area Brushed: X Grazing: _____

Comments: Drainage ditch crosses the property. Topography has been
altered resulting in a berm along the ditch.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____
If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Industrial parks.

: _____

F. Management Recommendations: Restore more natural drainage pattern.

: Fence.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: KEARNY VILLA NORTH

City Code: F II

: _____

F&G Code: F1-16
: F 20.26

Investigators: Ellen T. Bauder

Recon Code: F II

: Carla R. Scheidlinger

Map Pg#: 45:E/F4-5

Date Of Survey: 4/8/86

A. # Pools in F&G Report: 117 # in Recon Report: 145 # Observed (if changed): _____

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: X Small: X

PA: A (+)

Pool Size Diversity: High: X Med: _____ Low: _____

EA: A (o)

Pool Depth: Deep: X Med: X Shallow: X

PN: _____

Pool Depth Diversity: High: X Med: _____ Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: A (+)

Chamise: _____ Coastal sage scrub: _____ grassland: X

IO: C (a)

Other: Many weedy annuals.

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: X Assoc Habitat: High: _____ Med: _____ Low: X

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: X Grazing: _____

Comments: Some mounds remain. Freeway and adjacent Kearny Villa Road

: impound water in portions of the site.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Freeway to west, industrial parks to south-

: east. Miramar NAS to east.

F. Management Recommendations: Protect from effects of construction of

: SR 52, fence, and restore natural drainage patterns.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: KEARNY VILLA NORTH
: _____

City Code: F V

F&G Code: F 17

Investigators: Ellen T. Bauder

Recon Code: F V

: Carla R. Scheidlinger

Map Pg#: 39:F 4-5

Date Of Survey: 4/7-8/86

A. # Pools in F&G Report: 12 # in Recon Report: 33 # Observed (if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: X Medium: X Small: X

Pool Size Diversity: High: X Med: Low:

Pool Depth: Deep: Med: X Shallow:

Pool Depth Diversity: High: Med: X Low:

Cobble Size: Large: Med: Small: None: X

Associated Habitat: Mixed Chaparral:

Chamise: X Coastal sage scrub: grassland: X

Other: _____

C. Species Presence/Absence

PA: A (+)

EA: _____

PN: _____

OC: _____

NF: _____

BO: A (+)

IO: C (o)

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: X Low: X Assoc Habitat: High: Med: X Low:

ORV Damage: X Trash/Dumping: X Area Brushed: Grazing:

Comments: Dumping is a severe problem.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Miramar NAS, brushed canyons.

: _____

F. Management Recommendations: most of these pools will be lost to

: construction of SR 52. Fence remaining pools.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: KEARNY VILLA NORTH

City Code: F IV

: _____

F&G Code: F18+28

Investigators: Ellen T. Bauder

Recon Code: F IV

: Carla R. Scheidlinger

Map Pg#: 45: F 4

Date Of Survey: 4/8/86

A. # Pools in F&G Report: 17 #in Recon Report: 14 # Observed(if changed): 5

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:

PA: C (+)

Pool Size Diversity: High: Med: Low:

EA: _____

Pool Depth: Deep: Med: Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

OC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: C (o)

Chamise: Coastal sage scrub: grassland:

ID: C (-)

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: Severe dumping especially on mesa finger of F 28. Includes

: cars and appliances.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Miramar NAS, brushed and damaged open space,

: and industrial parks.

F. Management Recommendations: These pools will be destroyed by the

: construction of SR 52.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: KEARNY VILLA NORTH
: _____

City Code: F III

F&G Code: F 19

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: F III

Map Pg#: 45: F 5

Date Of Survey: 4/8/86

A. # Pools in F&G Report: 2 #in Recon Report: 11 # Observed(if changed): _____

Discussion: Appear to be about 12 pools.
: _____

B. Site Description:

Pool Size: Large: Medium: X Small: X
Pool Size Diversity: High: Med: Low: X
Pool Depth: Deep: Med: Shallow: X
Pool Depth Diversity: High: Med: Low: X
Cobble Size: Large: Med: Small: None: X
Associated Habitat: Mixed Chaparral:
Chamise: X Coastal sage scrub: grassland:
Other: _____

C. Species Presence/Absence

PA: A (+)
EA: _____
PN: _____
OC: _____
NF: _____
BO: A (+)
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: Medium: Low: X Assoc Habitat: High: X Med: X Low:
ORV Damage: X Trash/Dumping: X Area Brushed: Grazing:
Comments: Extensive dumping of household trash and appliances.
: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____
Connection to Natural Open Space: _____ Canyon: Mesatop:
If yes, Open Space Protected: Open Space Unprotected:
Surrounding Land Use: Miramar NAS. Brushed, open canyons.
: _____

F. Management Recommendations: Remove trash, Fence.
: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: KEARNY VILLA NORTH

City Code: F I

: _____

F&G Code: F21-25

Investigators: Ellen T. Bauder

Recon Code: F I

: Carla R. Scheidlinger

Map Pg#: 45: F 5

Date Of Survey: 4/8/86

A. # Pools in F&G Report: 26 #in Recon Report: 26 # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: Medium: Small:

Pool Size Diversity: High: Med: Low:

Pool Depth: Deep: Med: Shallow:

Pool Depth Diversity: High: Med: Low:

Cobble Size: Large: Med: Small: None:

Associated Habitat: Mixed Chaparral:

Chamise: Coastal sage scrub: grassland:

Other: _____

C. Species Presence/Absence

PA: C (o)

EA: _____

PN: _____

OC: _____

NF: _____

BO: C (o)

IO: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Freeway, Miramar NAS

: _____

F. Management Recommendations: Maintain fence.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: KEARNY VILLA NORTH

City Code: F V

: _____

F&G Code: F 27

Investigators: Ellen T. Bauder

Recon Code: F V

: Carla R. Scheidlinger

Map Pg#: 46: A 4

Date Of Survey: 4/8/86

A. # Pools in F&G Report: 11 #in Recon Report: 16 # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: ___ Medium: ___ Small: X

Pool Size Diversity: High: ___ Med: ___ Low: X

Pool Depth: Deep: ___ Med: ___ Shallow: X

Pool Depth Diversity: High: ___ Med: ___ Low: X

Cobble Size: Large: ___ Med: ___ Small: ___ None: X

Associated Habitat: Mixed Chaparral: ___

Chamise: X Coastal sage scrub: ___ grassland: X

Other: _____

C. Species Presence/Absence

PA: C (-)

EA: _____

PN: _____

OC: _____

NF: _____

BO: C (-)

IO: C (-)

MF: _____

MA: _____

Comments: PA not seen

: in 1979.

: _____

D. Site Disturbance:

Pools: High: ___ Medium: X Low: ___ Assoc Habitat: High: X Med: X Low: ___

ORV Damage: X Trash/Dumping: X Area Brushed: ___ Grazing: ___

Comments: Sand and cement in one pool.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Miramar NAS, industrial parks to south,

: brushed canyon to east.

F. Management Recommendations: These pools will be destroyed by the

: construction of SR 52.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: TIERRASANTA SOUTH
: _____

City Code: G

F&G Code: G 1-2⁺

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: G

Map Pg#: 54: B 4

Date Of Survey: 4/7/86, 7/9/86

A. # Pools in F&G Report: 12 # in Recon Report: 32 # Observed (if changed): _____

Discussion: Appear to be 35-40 pools. To south of powerlines (G 1)
: are 30-35 pools. To north of lines (G 2⁺) are 7 pools.

B. Site Description:

Pool Size: Large: Medium: X Small: X
Pool Size Diversity: High: Med: X Low:
Pool Depth: Deep: X Med: X Shallow:
Pool Depth Diversity: High: X Med: Low:
Cobble Size: Large: X Med: Small: None:
Associated Habitat: Mixed Chaparral:
Chamise: Coastal sage scrub: grassland: X
Other: Some mounds remain.

C. Species Presence/Absence

PA: A (+)
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
ID: _____
MF: _____
MA: C (o)
Comments: I.o. seen prev
: Prob. still there. G 2
: no sensitive species.

D. Site Disturbance:

Pools: High: X Medium: X Low: Assoc Habitat: High: Med: X Low:
ORV Damage: X Trash/Dumping: X Area Brushed: X Grazing:

Comments: Some mounds have been graded. Two parallel dirt roads run from
: north to south and traverse the whole area.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop:
If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Residential to the northwest. Navy recrea-
: tion center below and to east.

F. Management Recommendations: Remove trash. Fence, perhaps so that

: walker's and joggers may continue to use area. Erect infor. display

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: Ha

: _____

F&G Code: H 1

Investigators: Carla R. Scheidlinger

Recon Code: H XI

: _____

Map Pg#: 35: C 3

Date Of Survey: 4/23/86

A. # Pools in F&G Report: 4 #in Recon Report: 0 # Observed(if changed): 2

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small: X

Pool Size Diversity: High: Med: Low: X

Pool Depth: Deep: Med: Shallow: X

Pool Depth Diversity: High: Med: Low: X

Cobble Size: Large: Med: Small: X None:

Associated Habitat: Mixed Chaparral:

Chamise: X Coastal sage scrub: grassland:

Other: _____

PA: _____

EA: C (o)

PN: _____

OC: _____

NF: _____

BO: _____

IO: C (o)

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: X Assoc Habitat: High: Med: Low: X

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: A dirt road comes near the pools.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: _____ Canyon: X Mesatop: X

If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Undeveloped land.

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: Ha

: _____

F&G Code: H 2

Investigators: C. R. Scheidlinger

Recon Code: H XI

: _____

Map Pg#: 35: C 4

Date Of Survey: 4/23/86

A. # Pools in F&G Report: 8 #in Recon Report: 19 # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: X Small: X

Pool Size Diversity: High: X Med: Low:

Pool Depth: Deep: X Med: Shallow: X

Pool Depth Diversity: High: X Med: Low:

Cobble Size: Large: X Med: Small: X None:

Associated Habitat: Mixed Chaparral: X

Chamise: X Coastal sage scrub: grassland:

Other: Clayey Eryngium pools.

PA: _____

EA: C (o)

PN: _____

OC: _____

NF: _____

BO: _____

IO: _____

MF: U (-)

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: X Low: Assoc Habitat: High: Med: Low: X

ORV Damage: Trash/Dumping: X Area Brushed: Grazing:

Comments: Horse tracks.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: Open Space Unprotected:

Surrounding Land Use: Undeveloped land in urban reserve. Nearby

: but not adjacent to Caltrans preserve.

F. Management Recommendations: Remove trash. Fence. Purchase and annex

: to Caltrans preserve.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: H

: _____

F&G Code: H 3

Investigators: C. R. Scheidlinger

Recon Code: H XI

: _____

Map Pg#: 35: C 4

Date Of Survey: 4/23/86

A. # Pools in F&G Report: 3 #in Recon Report: 1 # Observed(if changed): _____

Discussion: Caltrans estimates 23 pools.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: X Small:

PA: _____

Pool Size Diversity: High: Med: Low: X

EA: A

Pool Depth: Deep: Med: X Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

OC: _____

Cobble Size: Large: Med: Small: X None:

NF: _____

Associated Habitat: Mixed Chaparral: X

BO: _____

Chamise: X Coastal sage scrub: grassland:

IO: U

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: X Assoc Habitat: High: Med: Low: X

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Future urbanizing zone. Currently undeveloped.

: _____

F. Management Recommendations: Purchase and connect to Caltrans

: preserve to the south.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: Hc

: _____

F&G Code: H 4

Investigators: C. R. Scheidlinger

Recon Code: H VIII

: _____

Map Pg#: 35: C 4

Date Of Survey: 5/14/86

A. # Pools in F&G Report: 4 #in Recon Report: # Observed(if changed): 7

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: Medium: X Small: X

Pool Size Diversity: High: Med: X Low:

Pool Depth: Deep: Med: X Shallow: X

Pool Depth Diversity: High: Med: X Low:

Cobble Size: Large: Med: Small: None: X

Associated Habitat: Mixed Chaparral: X

Chamise: Coastal sage scrub: grassland:

Other: _____

C. Species Presence/Absence

PA: A (+)

EA: A (+)

PN: _____

OC: _____

NF: _____

BO: U (-)

IO: C (+)

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: X Low: Assoc Habitat: High: Med: Low: X

ORV Damage: X Trash/Dumping: Area Brushed: Grazing:

Comments: Pools are adjacent to and included in the road.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: Mesatop: X

If yes, Open Space Protected: X Open Space Unprotected:

Surrounding Land Use: Adjacent to Caltrans preserve.

: _____

F. Management Recommendations: Fence. Purchase and annex to Caltrans

: preserve.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: Hb

: _____

F&G Code: H 5

Investigators: C. R. Scheidlinger

Recon Code: H X

: E. T. Bauder

Map Pg#: 35: C 4

Date Of Survey: spring, 1986

A. # Pools in F&G Report: 7 # in Recon Report: _____ # Observed (if changed): 10

Discussion: _____
: _____

B. Site Description:

Pool Size: Large: ___ Medium: X Small: X

Pool Size Diversity: High: ___ Med: X Low: ___

Pool Depth: Deep: ___ Med: X Shallow: X

Pool Depth Diversity: High: ___ Med: X Low: ___

Cobble Size: Large: ___ Med: ___ Small: X None: ___

Associated Habitat: Mixed Chaparral: X

Chamise: X Coastal sage scrub: ___ grassland: ___

Other: _____

C. Species Presence/Absence

PA: A (o)

EA: C (o)

PN: _____

OC: _____

NF: _____

BO: _____

IO: U (o)

MF: _____ /

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: X Low: X Assoc Habitat: High: ___ Med: ___ Low: X

ORV Damage: X Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: Pools adjacent to road have been damaged.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: X Open Space Unprotected: X

Surrounding Land Use: Located on Caltrans preserve, Adjacent

: parcels in future urbanizing zone.

F. Management Recommendations: Fence. Purchase adjacent property to

: protect these fine pools.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: Hb

: _____

F&G Code: H 6

Investigators: E. T. Bauder

Recon Code: H X

: C. R. Scheidlinger

Map Pg#: 35: C 4

Date Of Survey: spring, 1986

A. # Pools in F&G Report: 1 # in Recon Report: # Observed (if changed): 2

Discussion: One pool is very large.

: _____

B. Site Description:

Pool Size: Large: X Medium: Small:

Pool Size Diversity: High: Med: Low: X

Pool Depth: Deep: Med: X Shallow:

Pool Depth Diversity: High: Med: Low: X

Cobble Size: Large: Med: X Small: X None:

Associated Habitat: Mixed Chaparral:

Chamise: X Coastal sage scrub: grassland: X

Other: _____

C. Species Presence/Absence

PA: A

EA: A

PN: _____

OC: _____

NF: _____

BO: A

ID: A

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: X Low: Assoc Habitat: High: Med: Low: X

ORV Damage: X Trash/Dumping: Area Brushed: Grazing:

Comments: Recent (1986) damage by vehicles.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: X Open Space Unprotected: X

Surrounding Land Use: Located on Caltrans preserve. Adjacent undeveloped

: land in future urbanizing zone.

F. Management Recommendations: Fence. Purchase adjacent lands to insure

: continued health of these pools.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: Hc

: _____

F&G Code: H 7

Investigators: C. R. Scheidlinger

Recon Code: H VIII

: _____

Map Pg#: 35: C 4

Date Of Survey: 4/23/86

A. # Pools in F&G Report: 6 # in Recon Report: 9 # Observed (if changed): _____

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: X Small:

PA: _____

Pool Size Diversity: High: Med: X Low:

EA: A

Pool Depth: Deep: X Med: Shallow: X

PN: _____

Pool Depth Diversity: High: X Med: Low:

OC: _____

Cobble Size: Large: X Med: Small: X None:

NF: _____

Associated Habitat: Mixed Chaparral: X

BO: _____

Chamise: X Coastal sage scrub: grassland:

ID: U

Other: _____

MF: U

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: X Assoc Habitat: High: Med: Low: X

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Undeveloped land in future urbanizing zone.

: Near Caltrans vernal pool preserve.

F. Management Recommendations: Fence to protect. Purchase and annex

: to Caltrans preserve.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: Hc

: _____

F&G Code: H 8

Investigators: C. R. Scheidlinger

Recon Code: H VIII

: _____

Map Pg#: 35: C 4

Date Of Survey: 6/4/86

A. # Pools in F&G Report: 1 #in Recon Report: 3 # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: ___ Small: X

PA: _____

Pool Size Diversity: High: ___ Med: ___ Low: ___

EA: _____

Pool Depth: Deep: ___ Med: ___ Shallow: X

PN: _____

Pool Depth Diversity: High: ___ Med: ___ Low: ___

OC: _____

Cobble Size: Large: ___ Med: ___ Small: X None: ___

NF: _____

BO: _____

Associated Habitat: Mixed Chaparral: X
Chamise: ___ Coastal sage scrub: ___ grassland: ___

IO: _____

MF: _____

MA: _____

Other: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: X Low: ___ Assoc Habitat: High: ___ Med: ___ Low: X

ORV Damage: ___ Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: 1/4 mile Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: ___ Mesatop: X

If yes, Open Space Protected: ___ Open Space Unprotected: X

Surrounding Land Use: Near Caltrans preserve. Other undeveloped

: parcels in future urbanizing zone.

F. Management Recommendations: Purchase and annex to Caltrans preserve

: This area could help protect higher quality pools nearby.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH
: _____

City Code: Hc

F&G Code: H 9

Investigators: C. R. Scheidlinger
: _____

Recon Code: H VIII

Map Pg#: 35: C 4

Date Of Survey: 4/23/86

A. # Pools in F&G Report: 1 #in Recon Reports: 3 # Observed(if changed): _____

Discussion: One fairly large, marshy, shallow pool.
: _____

B. Site Description:

Pool Size: Large: X Medium: ___ Small: ___
Pool Size Diversity: High: ___ Med: ___ Low: X
Pool Depth: Deep: ___ Med: ___ Shallow: X
Pool Depth Diversity: High: ___ Med: ___ Low: X
Cobble Size: Large: ___ Med: ___ Small: X None: ___
Associated Habitat: Mixed Chaparral: X
Chamise: X Coastal sage scrub: ___ grassland: ___
Other: Near large patch of Adolphia.

C. Species Presence/Absence

PA: _____
EA: C
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: U
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: X Assoc Habitat: High: ___ Med: ___ Low: X
ORV Damage: ___ Trash/Dumping: ___ Area Brushed: ___ Grazing: ___
Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: 3/4 mile Dist. to Natural Open Space: adjacent
Connection to Natural Open Space: X Canyon: X Mesatop: X
If yes, Open Space Protected: ___ Open Space Unprotected: X
Surrounding Land Use: Undeveloped land in future urbanizing zone.
: Near Caltrans vernal pool preserve.

F. Management Recommendations: Fence. Purchase and annex to Caltrans
: preserve.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: Hb

: _____

F&G Code: H 10

Investigators: C. R. Scheidlinger

Recon Code: H IX

: _____

Map Pg#: 35: C 4

Date Of Survey: spring, 1986

A. # Pools in F&G Report: 1 # in Recon Report: 5 # Observed (if changed): 2

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: X Medium: Small:

Pool Size Diversity: High: Med: X Low:

Pool Depth: Deep: Med: X Shallow:

Pool Depth Diversity: High: Med: Low: X

Cobble Size: Large: Med: Small: X None:

Associated Habitat: Mixed Chaparral: X

Chamise: Coastal sage scrub: grassland: X

Other: _____

C. Species Presence/Absence

PA: _____

EA: _____

PN: _____

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: X Low: Assoc Habitat: High: Med: Low: X

ORV Damage: X Trash/Dumping: X Area Brushed: Grazing:

Comments: Large marshy pool with road bisecting it.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: X Open Space Unprotected: X

Surrounding Land Use: On Caltrans vernal pool preserve. Park

: Village PRD proposed for land immediately to the south.

F. Management Recommendations: Fence. Protect from effects of develop

: ment to the south.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH
: _____

City Code: Hc

F&G Code: H 11-12

Investigators: C. R. Scheidlinger
: _____

Recon Code: H VI

Map Pg#: 35: C 5

Date Of Survey: 4/30/86

A. # Pools in F&G Report: 5 #in Recon Report: 1 # Observed(if changed): 6

Discussion: _____
: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:
Pool Size Diversity: High: Med: Low:
Pool Depth: Deep: Med: Shallow:
Pool Depth Diversity: High: Med: Low:
Cobble Size: Large: Med: Small: None:
Associated Habitat: Mixed Chaparral:
Chamise: Coastal sage scrub: grassland:
Other: _____

PA: _____
EA: U (o)
PN: _____
OC: _____
NF: _____
BO: _____
IO: C (o)
MF: C (+)
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:
ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: Old roads and tracks cross some pools.
: _____

E. Site Defensibility:

Dist. to Travelled Roads: 1/2 mile Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: Canyon: Mesatop:
If yes, Open Space Protected: Open Space Unprotected:

Surrounding Land Use: Caltrans preserve to north. These pools are
: within the boundaries of the proposed Park Village PRD.

F. Management Recommendations: Pools will be destroyed by construction.
: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: Hc, Hd

: _____

F&G Code: H13-15

: H 23

Investigators: C. R. Scheidlinger

Recon Code: H VI-VIII

: _____

Map Pg#: 35:C/D 4

Date Of Survey: spring, 1986

A. # Pools in F&G Report: 23 #in Recon Report: # Observed(if changed):

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: X Small: X

PA: _____

Pool Size Diversity: High: Med: X Low:

EA: _____

Pool Depth: Deep: X Med: X Shallow:

PN: _____

Pool Depth Diversity: High: Med: X Low:

OC: _____

Cobble Size: Large: X Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral: X

BO: _____

Chamise: Coastal sage scrub: grassland:

IO: _____

Other: Much scrub oak.

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: X Assoc Habitat: High: Med: Low: X

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: X Open Space Unprotected: X

Surrounding Land Use: These pools are on the Caltrans preserve.

: Surrounding land is undeveloped and within the future urbanizing zone.

F. Management Recommendations: Fence. Purchase adjacent property if

: possible.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: He

: _____

F&G Code: H 17

Investigators: C. R. Scheidlinger

Recon Code: H XIII

: _____

Map Pg#: 35: A 6

Date Of Survey: 5/86

A. # Pools in F&G Report: 1 #in Recon Report: 8 # Observed(if changed): 0

Discussion: Plowed for agriculture.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:

PA: _____

Pool Size Diversity: High: Med: Low:

EA: _____

Pool Depth: Deep: Med: Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

OC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: grassland:

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: Mesatop:

If yes, Open Space Protected: Open Space Unprotected:

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: Hd

: _____

F&G Code: H 18

Investigators: C. R. Scheidlinger

Recon Code: H VI

: _____

Map Pg#: 35: D 4

Date Of Survey: 4/2/86

A. # Pools in F&G Report: 1 # in Recon Report: # Observed (if changed): 1

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: X Medium: Small:

Pool Size Diversity: High: Med: Low:

Pool Depth: Deep: X Med: Shallow: X

Pool Depth Diversity: High: X Med: Low:

Cobble Size: Large: Med: Small: X None:

Associated Habitat: Mixed Chaparral: X

Chamise: Coastal sage scrub: grassland:

Other: _____

C. Species Presence/Absence

PA: A (+)

EA: C (+)

PN: _____

OC: _____

NF: _____

BO: _____

IO: A (+)

MF: U (+)

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: X Assoc Habitat: High: Med: Low: X

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: 100 m Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: Mesatop: X

If yes, Open Space Protected: X Open Space Unprotected:

Surrounding Land Use: On Caltrans vernal pool preserve.

: Undeveloped land to north in future urbanizing zone.

F. Management Recommendations: Fence area.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: Hd

: _____

F&G Code: H 19-20

Investigators: C. R. Scheidlinger

Recon Code: H VI

: _____

Map Pg#: 35: D 4

Date Of Survey: 4/30/86

A. # Pools in F&G Report: 2 #in Recon Report: _____ # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: _____ Small: _____

Pool Size Diversity: High: _____ Med: _____ Low: X

Pool Depth: Deep: X Med: _____ Shallow: _____

Pool Depth Diversity: High: _____ Med: _____ Low: X

Cobble Size: Large: _____ Med: _____ Small: X None: _____

Associated Habitat: Mixed Chaparral: X
Chamise: _____ Coastal sage scrub: _____ grassland: _____

Other: _____

PA: R (+)

EA: C (+)

PN: _____

OC: _____

NF: _____

BO: C (+)

IO: _____

MF: _____

MA: _____

Comments: I. howellii

: C (+)

: _____

D. Site Disturbance:

Pools: High: _____ Medium: X Low: _____ Assoc Habitat: High: _____ Med: _____ Low: X

ORV Damage: X Trash/Dumping: _____ Area Brushed: X Grazing: _____

Comments: Prior to fencing damage by vehicles. Surrounding area brushed.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: _____ Mesatop: X

If yes, Open Space Protected: X Open Space Unprotected: _____

Surrounding Land Use: These pools are on the Caltrans preserve.

: _____

F. Management Recommendations: Keep fences in good repair.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: Hd

: _____

F&G Code: H 21

Investigators: C. R. Scheidlinger

Recon Code: H V

: _____

Map Pg#: 35: D 4

Date Of Survey: 5/14/86

A. # Pools in F&G Report: 7 #in Recon Report: # Observed(if changed): 25

Discussion: Increased number result of detailed survey spring, 1986.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: X Small: X

PA: A (+)

Pool Size Diversity: High: Med: X Low:

EA:

Pool Depth: Deep: Med: X Shallow: X

PN:

Pool Depth Diversity: High: Med: X Low:

OC:

Cobble Size: Large: X Med: X Small: X None:

NF:

BO: C (+)

Associated Habitat: Mixed Chaparral:

IO: C (+)

Chamise: X Coastal sage scrub: grasslands:

MF: U (o)

MA:

Other:

Comments:

:

:

D. Site Disturbance:

Pools: High: Medium: Low: X Assoc Habitat: High: Med: Low: X

ORV Damage: X Trash/Dumping: Area Brushed: Grazing:

Comments: Some tire tracks and horse hoof prints.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: X Open Space Unprotected: X

Surrounding Land Use: Future urbanizing area to north and east.

: Caltrans preserve to southwest.

F. Management Recommendations: Keep fences in good repair. Try to

: limit impact of proposed developments to east and north.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: Hd

: _____

F&G Code: H 22

Investigators: C. R. Scheidlinger

Recon Code: H V

: _____

Map Pg#: 35: D 4

Date Of Survey: 2/26/86

A. # Pools in F&G Report: 5 #in Recon Report: # Observed(if changed): 9

Discussion: Many pools are damaged. Some new pools may have been
created.

B. Site Description:

Pool Size: Large: Medium: X Small: X

Pool Size Diversity: High: Med: X Low:

Pool Depth: Deep: Med: X Shallow: X

Pool Depth Diversity: High: Med: X Low:

Cobble Size: Large: Med: Small: None: X

Associated Habitat: Mixed Chaparral:

Chamise: Coastal sage scrub: X grassland: X

Other: Ruderal grassland.

C. Species Presence/Absence

PA: C (o)

EA:

PN:

OC:

NF:

BO: U (o)

IO:

MF:

MA:

Comments:

:

:

D. Site Disturbance:

Pools: High: X Medium: Low: Assoc Habitat: High: X Med: Low:

ORV Damage: Trash/Dumping: Area Brushed: X Grazing:

Comments: This area was brushed for agriculture. Pool recovery to

south of road has been good.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: Mesatop: X

If yes, Open Space Protected: X Open Space Unprotected: X

Surrounding Land Use: Adjacent to Caltrans preserve, but also

contained within proposed Park Village PRD.

F. Management Recommendations: Fence. Protect from adjacent develop-

ment.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: _____

: _____

F&G Code: H 24-26

Investigators: C. R. Scheidlinger

Recon Code: H IV

: _____

Map Pg#: 35: E 4

Date Of Survey: 5/86

A. # Pools in F&G Report: 9 #in Recon Report: _____ # Observed(if changed): 0

Discussion: Pools were lost when area was converted to agriculture.

: Agriculture has been abandoned. Ruderal growth presently.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: ___ Small: ___

PA: _____

Pool Size Diversity: High: ___ Med: ___ Low: ___

EA: _____

Pool Depth: Deep: ___ Med: ___ Shallow: ___

PN: _____

Pool Depth Diversity: High: ___ Med: ___ Low: ___

OC: _____

Cobble Size: Large: ___ Med: ___ Small: ___ None: ___

NF: _____

Associated Habitat: Mixed Chaparral: ___

BO: _____

Chamise: ___ Coastal sage scrub: ___ grassland: ___

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: ___ Assoc Habitat: High: ___ Med: ___ Low: ___

ORV Damage: ___ Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: ___ Mesatop: ___

If yes, Open Space Protected: ___ Open Space Unprotected: ___

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: Hf

: _____

F&G Code: H 27-30

: H 34-35

Investigators: C. R. Scheidlinger

Recon Code: H I-III

: _____

Map Pg#: 35:E/F3-4

Date Of Survey: 5/86

A. # Pools in F&G Report: 45 #in Recon Report: _____ # Observed (if changed): 0

Discussion: These pools have been lost to residential development.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: ___ Small: ___

PA: _____

Pool Size Diversity: High: ___ Med: ___ Low: ___

EA: _____

Pool Depth: Deep: ___ Med: ___ Shallow: ___

PN: _____

Pool Depth Diversity: High: ___ Med: ___ Low: ___

OC: _____

Cobble Size: Large: ___ Med: ___ Small: ___ None: ___

NF: _____

Associated Habitat: Mixed Chaparral: ___

BO: _____

Chamise: ___ Coastal sage scrub: ___ grassland: ___

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: ___ Assoc Habitat: High: ___ Med: ___ Low: ___

ORV Damage: ___ Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: ___ Mesatop: ___

If yes, Open Space Protected: ___ Open Space Unprotected: ___

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: He

: _____

F&G Code: H31-33

Investigators: C. R. Patterson

Recon Code: H XIV-XV

: S. Lacy, C.R. Scheidlinger

Map Pg#: 38: D 2

Date Of Survey: 1981, 1985

A. # Pools in F&G Report: 4 # in Recon Report: 9 # Observed (if changed): 9

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: Medium: X Small: X

Pool Size Diversity: High: Med: X Low:

Pool Depth: Deep: Med: Shallow: X

Pool Depth Diversity: High: Med: Low: X

Cobble Size: Large: Med: Small: X None:

Associated Habitat: Mixed Chaparral:

Chamise: Coastal sage scrub: X grassland: X

Other: _____

C. Species Presence/Absence

PA: _____

EA: U (q)

PN: _____

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: X Assoc Habitat: High: Med: Low: X

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: 1 mile Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Undeveloped.

: _____

F. Management Recommendations: Fence.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENASQUITOS NORTH

City Code: _____

: _____

F&G Code: H 36⁺

Investigators: C. R. Scheidlinger

Recon Code: H XII

: _____

Map Pg#: 35: A 5

Date Of Survey: spring, 1986

A. # Pools in F&G Report: _____ #in Recon Report: 5 # Observed(if changed): 0

Discussion: Pools believed lost to agriculture.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: _____

EA: _____

Pool Depth: Deep: _____ Med: _____ Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: _____

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: _____ Assoc Habitat: High: _____ Med: _____ Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR INDUSTRIAL

City Code: P II

: _____

F&G Code: I 1

Investigators: Ellen T. Bauder

Recon Code: P II

: Carla R. Scheidlinger

Map Pg#: 39: D 4

Date Of Survey: 4/15/86

A. # Pools in F&G Report: 20 #in Recon Report: 53 # Observed(if changed): 20

Discussion: Recon EIR(9/18/80) est. 25 pools. F & W(4/14/81) est. 12

: pools lost to development, 4 with PA &/or EA.

B. Site Description:

Pool Size: Large: X Medium: X Small: X

Pool Size Diversity: High: X Med: Low:

Pool Depth: Deep: X Med: X Shallow: X

Pool Depth Diversity: High: X Med: Low:

Cobble Size: Large: X Med: Small: X None:

Associated Habitat: Mixed Chaparral: X

Chamise: X Coastal sage scrub: grassland:

Other: Some mounds. Fine mix of shrubs.

C. Species Presence/Absence

PA: A (o)

EA: C (o)

PN:

OC:

NF:

BO: C (o)

IO: C (-)

MF:

MA:

Comments:

:

:

D. Site Disturbance:

Pools: High: Medium: X Low: X Assoc Habitat: High: X Med: Low: X

ORV Damage: X Trash/Dumping: X Area Brushed: Grazing:

Comments: Dumping and vehicle damage restricted to eastern portion of

: property on level with Arjons Rd. Severe offsite grading.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop:

If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Industrial park to e.s. and west. Sand and

: gravel mining in canyon to north.

F. Management Recommendations: Fence on level with Arjons Road has

: been breached. Implant posts to prevent access. Remove trash.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR INDUSTRIAL
: _____

City Code: i I

F&G Code: I 2-5

Investigators: Ellen T. Bauder

Recon Code: I

: Carla R. Scheidlinger

Map Pg#: 19: D 5-6

Date Of Survey: 4/15/86

A. # Pools in F&G Report: 92 #in Recon Report: 131 # Observed(if changed): 0

Discussion: The area has been graded but no buildings erected.
: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:

PA: _____

Pool Size Diversity: High: Med: Low:

EA: _____

Pool Depth: Deep: Med: Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

OC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: grassland:

IO: _____

MF: _____

MA: _____

Other: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: Mesatop:

If yes, Open Space Protected: Open Space Unprotected:

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR INDUSTRIAL City Code: i II
: Midway Drive In F&G Code: I 6A⁺
Investigators: Ellen T. Bauder Recon Code: i II
: Carla R. Scheidlinger Map Pg#: 39: B 6
Date Of Survey: 4/15/86

A. # Pools in F&G Report: 24 # in Recon Report: 42 # Observed (if changed): 25

Discussion: _____
: _____

B. Site Description:

Pool Size: Large: Medium: X Small: X
Pool Size Diversity: High: X Med: Low:
Pool Depth: Deep: X Med: X Shallow: X
Pool Depth Diversity: High: X Med: Low:
Cobble Size: Large: Med: Small: X None:
Associated Habitat: Mixed Chaparral: X
Chamise: X Coastal sage scrub: grassland: X
Other: Some mounds. Wide variety of shrubs.

C. Species Presence/Absence

PA: C (o) U (o)
EA: C (+)
PN: _____
OC: _____
NF: _____
BO: C (o)
IO: C (o)
MF: U (o)
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: X Medium: X Low: X Assoc Habitat: High: X Med: X Low:
ORV Damage: X Trash/Dumping: X Area Brushed: Grazing:

Comments: Miramar Rd. to s. has a damming effect. Dumping, including
concrete & gravel, has created an unpaved road across pools.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____
Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____
If yes, Open Space Protected: _____ Open Space Unprotected: _____
Surrounding Land Use: Industrial parks to north and east. Auto
dealership to west. Miramar NAS across road to south.

F. Management Recommendations: Remove trash. Fence. Rehabilitate.

: Despite site damage, many pools are in excellent condition.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR INDUSTRIAL

City Code: i II

: Ford Motor Company on site mitigation

F&G Code: I 6B⁺

Investigators: C. R. Scheidlinger, C. Patterson

Recon Code: i II

: _____

Map Pg#: 39: B 6

Date Of Survey: 6/86

A. # Pools in F&G Report: 5 #in Recon Report: 42 # Observed(if changed): 5

Discussion: Most of this site has been developed. Only 0.56 undeveloped
acres remain.

B. Site Description:

C. Species Presente/Absence

Pool Size: Large: Medium: X Small:

PA: C (+)

Pool Size Diversity: High: Med: X Low:

EA:

Pool Depth: Deep: Med: X Shallow: X

PN:

Pool Depth Diversity: High: Med: X Low:

OC:

Cobble Size: Large: Med: Small: X None:

NF:

Associated Habitat: Mixed Chaparral:

BO: U (+)

Chamise: X Coastal sage scrub: X grassland:

ID: C (+)

Other: Almost no surrounding habitat remains.

MF:

MA:

Comments:

:

:

D. Site Disturbance:

Pools: High: Medium: X Low: Assoc Habitat: High: Med: X Low:

ORV Damage: Trash/Dumping: X Area Brushed: Grazing:

Comments: Trash and dumping are problems as is runoff from nearby

irrigated ornamentals.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: 100 meters

Connection to Natural Open Space: Canyon: Mesatop:

If yes, Open Space Protected: Open Space Unprotected:

Surrounding Land Use: Commercial. Open space is NAS Miramar across

a 4 lane road.

F. Management Recommendations: Remove trash, ornamentals, and irrigati

:fence.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR INDUSTRIAL
: Facilities Development property

City Code: i II
F&G Code: I 6C⁺

Investigators: C. R. Scheidlinger, C. Patterson
: _____

Recon Code: i II
Map Pg#: 39: B 6

Date Of Survey: 6/86

A. # Pools in F&G Report: 12 # in Recon Report: 19 # Observed (if changed): 12

Discussion: Pools graded in 1980, then reconstructed.
: _____

B. Site Description:

Pool Size: Large: Medium: X Small: X
Pool Size Diversity: High: Med: X Low:
Pool Depth: Deep: X Med: X Shallow:
Pool Depth Diversity: High: Med: X Low:
Cobble Size: Large: Med: Small: None: X
Associated Habitat: Mixed Chaparral:
Chamise: X Coastal sage scrub: X grassland: X
Other: Many weedy annuals.

C. Species Presence/Absence

PA: U (+)
EA: U (o)
PN: _____
OC: _____
NF: _____
BO: C (+)
IO: C (+)
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: X Medium: Low: Assoc Habitat: High: X Med: Low:
ORV Damage: Trash/Dumping: Area Brushed: X Grazing:
Comments: Area graded and brushed in 1980.
: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: 100 meters
Connection to Natural Open Space: Canyon: Mesatop:
If yes, Open Space Protected: Open Space Unprotected:
Surrounding Land Use: Commercial. Open space NAS Miramar across
: 4 lane road. Site is fenced.

F. Management Recommendations: Maintain fence. Repair abrupt grade

: change to property on north; erosion causing pools to drain.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR INDUSTRIAL
: _____

City Code: i III

F&G Code: I 7

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: i III

Map Pg#: 39: A 1

Date Of Survey: 4/15/86

A. # Pools in F&G Report: 3 #in Recon Report: 30 # Observed(if changed): _____

Discussion: These pools form 3 large & 2 smaller clusters. This
: appears to account for the discrepancy in numbers.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: ___ Small: ___
Pool Size Diversity: High: ___ Med: X Low: ___
Pool Depth: Deep: X Med: X Shallow: ___
Pool Depth Diversity: High: ___ Med: ___ Low: X
Cobble Size: Large: ___ Med: ___ Small: ___ None: X
Associated Habitat: Mixed Chaparral: ___
Chamise: X Coastal sage scrub: ___ grassland: X
Other: Outstanding zonation of vegetation.

PA: _____
EA: A (+) U (-)
PN: _____
OC: _____
NF: _____
BC: C (o)
ID: _____
MF: _____
MA: _____
Comments: Very dense
: Isoetes howellii, EA
: rare in 1979 city eval

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: X Assoc Habitat: High: ___ Med: ___ Low: X
ORV Damage: X Trash/Dumping: ___ Area Brushed: X Grazing: ___

Comments: These pools are in excellent condition but have some vehicle
: damage on the south side.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: ___ Mesatop: X
If yes, Open Space Protected: ___ Open Space Unprotected: X

Surrounding Land Use: This land is part of Miramar NAS. To the e
: is industrial/commercial devel., to w business, to s MNAS.

F. Management Recommendations: Fence. Difficult to understand the

: city rating of low quality. These pools are excellent. Perhaps
: they have recovered from a previously degraded state.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR INDUSTRIAL

City Code: _____

: _____

F&G Code: I 8

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 39: D 5

Date Of Survey: 4/15/86

A. # Pools in F&G Report: 45 #in Recon Report: _____ # Observed(if changed): 0

Discussion: Construction of an industrial park destroyed these pools.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large:___ Medium:___ Small:___

PA: _____

Pool Size Diversity: High:___ Med:___ Low:___

EA: _____

Pool Depth: Deep:___ Med:___ Shallow:___

PN: _____

Pool Depth Diversity: High:___ Med:___ Low:___

OC: _____

Cobble Size: Large:___ Med:___ Small:___ None:___

NF: _____

Associated Habitat: Mixed Chaparral:___

BO: _____

Chamise:___ Coastal sage scrub:___ grassland:___

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High:___ Medium:___ Low:___ Assoc Habitat: High:___ Med:___ Low:___

ORV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing:___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon:___ Mesatop:___

If yes, Open Space Protected:___ Open Space Unprotected:___

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR INDUSTRIAL

City Code: i 9

: _____

F&G Code: I 9

Investigators: Ellen T. Bauder

Recon Code: i 9

: Carla R. Scheidlinger

Map Pg#: 44: E 1

Date Of Survey: 4/15/86

A. # Pools in F&G Report: 1 #in Recon Report: # Observed(if changed):

Discussion: This pool was destroyed by the construction of business/
commercial buildings.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:

PA: _____

Pool Size Diversity: High: Med: Low:

EA: _____

Pool Depth: Deep: Med: Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

OC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: grassland:

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR INDUSTRIAL
: _____

City Code: i 10

F&G Code: I 10

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: i II

Map Pg#: 39: C 6

Date Of Survey: 4/15/86

A. # Pools in F&G Report: 1 #in Recon Report: 3 # Observed(if changed): 0

Discussion: This area is so degraded that the pools must be considered
: lost. The site is vacant.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:
Pool Size Diversity: High: Med: Low:
Pool Depth: Deep: Med: Shallow:
Pool Depth Diversity: High: Med: Low:
Cobble Size: Large: Med: Small: None:
Associated Habitat: Mixed Chaparral:
Chamise: Coastal sage scrub: grassland:
Other: _____

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:
ORV Damage: Trash/Dumping: Area Brushed: Grazing:
Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____
Connection to Natural Open Space: _____ Canyon: Mesatop:
If yes, Open Space Protected: Open Space Unprotected:
Surrounding Land Use: _____
: _____

F. Management Recommendations: _____
: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR INDUSTRIAL City Code: _____

: _____ F&G Code: I 11⁺

Investigators: C. R. Scheidlinger Recon Code: i IV ?

: _____ Map Pg#: 39: A 6

Date Of Survey: 7/9/86

A. # Pools in F&G Report: _____ #in Recon Report: 9 # Observed(if changed): 1

Discussion: Pool is on a small vacant lot between developed parcels.

: No sensitive taxa represented.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: X

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: _____

EA: _____

Pool Depth: Deep: _____ Med: _____ Shallow: X

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

IO: _____

Other: Very disturbed and weedy.

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: X Assoc Habitat: High: X Med: _____ Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: X Grazing: _____

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: _____

If yes, Open Space Protected: X Open Space Unprotected: _____

Surrounding Land Use: Commercial. Open space easement on 8.4 acres

: of steep slope.

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR INDUSTRIAL

City Code: _____

: _____

F&G Code: I 12⁺

Investigators: C. R. Scheidlinger

Recon Code: i VI ?

: _____

Map Pg#: 38: F 6

Date Of Survey: 7/9/86

A. # Pools in F&G Report: _____ # in Recon Report: 6 # Observed (if changed): _____

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: X Small: X

PA: _____

Pool Size Diversity: High: _____ Med: X Low: _____

EA: _____

Pool Depth: Deep: X Med: _____ Shallow: X

PN: _____

Pool Depth Diversity: High: X Med: _____ Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: X None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: X grassland: X

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: X Assoc Habitat: High: _____ Med: _____ Low: X

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: X Grazing: _____

Comments: Site appears to be recovering from brushing.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: _____ Open Space Unprotected: X?

Surrounding Land Use: Freeway to west. Road to south. commercial

: development to east.

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR INDUSTRIAL

City Code: i V ?

: _____

F&G Code: I 13⁺

Investigators: C. R. Scheidlinger

Recon Code: i V ?

: _____

Map Pg#: 38: E 6

Date Of Survey: 7/9/86

A. # Pools in F&G Report: _____ # in Recon Report: 2 # Observed (if changed): 0

Discussion: Pools destroyed. Industrial park and road.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: ___ Small: ___ :

PA: _____

Pool Size Diversity: High: ___ Med: ___ Low: ___ :

EA: _____

Pool Depth: Deep: ___ Med: ___ Shallow: ___ :

PN: _____

Pool Depth Diversity: High: ___ Med: ___ Low: ___ :

OC: _____

Cobble Size: Large: ___ Med: ___ Small: ___ None: ___ :

NF: _____

Associated Habitat: Mixed Chaparral: ___ :

BO: _____

Chamise: ___ Coastal sage scrub: ___ grassland: ___ :

IO: _____

Other: _____ :

MF: _____

MA: _____

Comments: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: ___ Assoc Habitat: High: ___ Med: ___ Low: ___

ORV Damage: ___ Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: ___ Mesatop: ___

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: DTAY MESA

City Code: J 1

: _____

F&G Code: J 1

Investigators: E.T. Bauder, C.R. Scheidlinger

Recon Code: _____

: T. Cass

Map Pg#: 72: D 5

Date Of Survey: 4/14/86

A. # Pools in F&G Report: 2 #in Recon Report: _____ # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: _____ Medium: X Small: _____

Pool Size Diversity: High: _____ Med: _____ Low: X

Pool Depth: Deep: _____ Med: X Shallow: _____

Pool Depth Diversity: High: _____ Med: _____ Low: X

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

Associated Habitat: Mixed Chaparral: X

Chamise: _____ Coastal sage scrub: _____ grassland: X

Other: Rosa minutiflora grows close by.

C. Species Presence/Absence

PA: _____

EA: C

PN: _____

OC: _____

NF: C 1 pool

BO: _____

IO: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: X Medium: _____ Low: _____ Assoc Habitat: High: X Med: _____ Low: _____

ORV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: Heavy use by offroad vehicles.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: 1/2 mile Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Offroad vehicle activity.

: _____

F. Management Recommendations: Given the surrounding land use, fences

: would probably not remain intact. Residential devel. proposed.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA

City Code: J2

: _____

F&G Code: J 29⁺

Investigators: E.T. Bauder, C.R. Scheidlinger

Recon Code: _____

: T. Cass

Map Pg#: 72: E 5

Date Of Survey: 4/14/86

A. # Pools in F&G Report: 0 #in Recon Report: _____ # Observed(if changed): 20

Discussion: A biological survey by RBR (/85) found 20 pools in this
area & 13 more to the southwest.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: X Small: X

PA: _____

Pool Size Diversity: High: Med: X Low:

EA: C (o)

Pool Depth: Deep: Med: X Shallow: X

PN: _____

Pool Depth Diversity: High: Med: X Low:

OC: _____

Cobble Size: Large: Med: X Small: None:

NF: U (-)

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: X grassland: X

MF: _____

Other: Mounded topography remains.

MA: _____

Comments: PN seen prev-

iously, not in 85 or 86

: MA seen in 4/85.

D. Site Disturbance:

Pools: High: X Medium: X Low: Assoc Habitat: High: X Med: Low:

ORV Damage: X Trash/Dumping: Area Brushed: X Grazing:

Comments: Used as an offroad vehicle recreation area.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Offroad vehicle activity.

F. Management Recommendations: Fencing of little value without change

in surrounding land use. Residential development proposed.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA
: _____

City Code: J2
F&G Code: J 2N*

Investigators: E.T. Bauder, C.R. Scheidlinger
: T. Cass

Recon Code: _____
Map Pg#: 72: E 5

Date Of Survey: 4/14/86

A. # Pools in F&G Report: 1 #in Recon Report: _____ # Observed(if changed): ?

Discussion: These are Psilocarphus depressions with no sensitive
: taxa.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: ___ Small: X
Pool Size Diversity: High: ___ Med: ___ Low: X
Pool Depth: Deep: ___ Med: ___ Shallow: X
Pool Depth Diversity: High: ___ Med: ___ Low: X
Cobble Size: Large: ___ Med: ___ Small: ___ None: X
Associated Habitat: Mixed Chaparral: ___
Chamise: ___ Coastal sage scrub: X grassland: X
Other: _____

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: X Medium: ___ Low: ___ Assoc Habitat: High: X Med: ___ Low: ___
ORV Damage: X Trash/Dumping: ___ Area Brushed: ___ Grazing: ___
Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: 1/4 mile Dist. to Natural Open Space: adjacent
Connection to Natural Open Space: X Canyon: X Mesatop: X
If yes, Open Space Protected: ___ Open Space Unprotected: X
Surrounding Land Use: Off road vehicle traffic.
: _____

F. Management Recommendations: Little can be done without a change in
: the surrounding land use. Residential development proposed.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA

City Code: _____

: _____

F&G Code: J 2W⁺

Investigators: Ellen T. Bauder

Recon Code: _____

: _____

Map Pg#: 72: E5

Date Of Survey: _____

A. # Pools in F&G Report: _____ # in Recon Report: _____ # Observed (if changed): _____

Discussion: Bio. survey by RBR (85) maps 13 pools. These pools were
: not evaluated for this study. Potential sensitive species.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: _____

EA: _____

Pool Depth: Deep: _____ Med: _____ Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: _____

IO: _____

MF: _____

Other: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: _____ Assoc Habitat: High: _____ Med: _____ Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Offroad vehicle activity.

: _____

F. Management Recommendations: Residential development proposed for

: this area.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA
: S.w. intersec. Dillon Rd. & Otay Mesa Road
Investigators: E.T. Bauder, C.R. Scheidlinger
: T. Cass

City Code: _____
F&G Code: J 3⁺
Recon Code: _____
Map Pg#: 72: D 6

Date Of Survey: 4/14/86

A. # Pools in F&G Report: _____ #in Recon Report: _____ # Observed(if changed): 2

Discussion: Not included in 1979 F & G survey.
: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: X
Pool Size Diversity: High: _____ Med: _____ Low: X
Pool Depth: Deep: _____ Med: X Shallow: _____
Pool Depth Diversity: High: _____ Med: _____ Low: X
Cobble Size: Large: _____ Med: _____ Small: _____ None: X
Associated Habitat: Mixed Chaparral: _____
Chamise: _____ Coastal sage scrub: _____ grassland: X
Other: Mound remnants.

PA: _____
EA: _____
PN: _____
OC: _____
NF: C (2 pools)
BO: _____
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: _____ Medium: X Low: _____ Assoc Habitat: High: _____ Med: X Low: _____
ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: X
Comments: Burned 5/86 after initial survey.
: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____
Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____
If yes, Open Space Protected: _____ Open Space Unprotected: _____
Surrounding Land Use: Grazing.
: _____

F. Management Recommendations: Project is proposed for this site.
: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA

City Code: Jd

: _____

F&G Code: J 4

Investigators: E.T. Bauder, C.R. Scheidlinger

Recon Code: _____

: T. Cass

Map Pg#: 72 : E 4

Date Of Survey: 4/14/86

A. # Pools in F&G Report: 1 #in Recon Report: _____ # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size: Large:___ Medium:___ Small: X

Pool Size Diversity: High:___ Med:___ Low: X

Pool Depth: Deep:___ Med:___ Shallow: X

Pool Depth Diversity: High:___ Med:___ Low: X

Cobble Size: Large:___ Med:___ Small: X None:___

Associated Habitat: Mixed Chaparral:___

Chamise:___ Coastal sage scrub: X grassland: X

Other: Mounded topography, undeveloped pools.

C. Species Presence/Absence

PA: _____

EA: _____

PN: _____

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: _____

Comments: Wide variety

: of native grasses and

: herbs.

D. Site Disturbance:

Pools: High:___ Medium: X Low: X Assoc Habitat: High:___ Med: X Low: X

ORV Damage: X Trash/Dumping: X Area Brushed:___ Grazing:___

Comments: Primary disturbance comes from a dirt road which bisects

: this finger mesa.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected:___ Open Space Unprotected: X

Surrounding Land Use: Auto wrecking yard to east, offroad vehicle

: activity to southwest.

F. Management Recommendations: Perhaps fencing. Proposed Precise Plan

: area (residential development).

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: DTAY MESA

City Code: Jd

: Western portion of Jd.

F&G Code: J 5

Investigators: E.T. Bauder, C.R. Scheidlinger

Recon Code: _____

: T. Cass

Map Pg#: 72: D 4

Date Of Survey: 4/14/86

A. # Pools in F&G Report: 1 #in Recon Report: _____ # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: _____ Medium: X Small: _____

Pool Size Diversity: High: _____ Med: _____ Low: X

Pool Depth: Deep: _____ Med: X Shallow: _____

Pool Depth Diversity: High: _____ Med: _____ Low: X

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

Associated Habitat: Mixed Chaparral: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

Other: Excellent assemblage of succulents.

C. Species Presence/Absence

PA: _____

EA: C

PN: _____

OC: _____

NF: U

BO: _____

IO: _____

MF: _____

MA: C

Comments: Ferocactus vir

: Dichondra oc. 3 diff

: Dudleyas.

D. Site Disturbance:

Pools: High: _____ Medium: X Low: _____ Assoc Habitat: High: _____ Med: X Low: _____

ORV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: Dirt road crosses this area and appears to provide access to

: nearby slopes for offroad vehicle activity.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Offroad vehicle activity to southwest.

: _____

F. Management Recommendations: Fencing probably of little value. This

: area is part of a proposed Precise Plan (residential development).

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA

City Code: Jd

: _____

F&G Code: J 7

Investigators: E.T. Bauder, C.R. Scheidlinger

Recon Code: _____

: T. Cass

Map Pg#: 72: E 4

Date Of Survey: 4/14/86

A. # Pools in F&G Report: 1 #in Recon Report: _____ # Observed(if changed): 0

Discussion: Pool appears to have been where there is now a dirt road.

: Eryngium was reported here in 1979.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: ___ Small: ___

PA: _____

Pool Size Diversity: High: ___ Med: ___ Low: ___

EA: _____

Pool Depth: Deep: ___ Med: ___ Shallow: ___

PN: _____

Pool Depth Diversity: High: ___ Med: ___ Low: ___

OC: _____

Cobble Size: Large: ___ Med: ___ Small: ___ None: ___

NF: _____

Associated Habitat: Mixed Chaparral: ___

BO: _____

Chamise: ___ Coastal sage scrub: ___ grassland: ___

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: ___ Assoc Habitat: High: ___ Med: ___ Low: ___

ORV Damage: ___ Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: ___ Mesatop: ___

If yes, Open Space Protected: ___ Open Space Unprotected: ___

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: DTAY MESA

City Code: Jb

: _____

F&G Code: J 11 E&W⁺

Investigators: E.T. Bauder et al. (1985)

Recon Code: _____

: J. Vanderwier (1986)

Map Pg#: 74: D 5

Date Of Survey: 4/29/85, 4/30/86, 6/9/86

A. # Pools in F&G Report: 2 # in Recon Report: _____ # Observed (if changed): 6

Discussion: J 11E=J 11 of 1979 study.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: X Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: X Low: _____

EA: _____

Pool Depth: Deep: X Med: X Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: X Low: _____

OC: C (J 11E)

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: X grassland: X

ID: _____

Other: Succulent scrub on adjacent slopes.

MF: _____

MA: C (J 11W)

Comments: _____

: _____

D. Site Disturbance:

Pools: High: X Medium: X Low: _____ Assoc Habitat: High: X Med: _____ Low: _____

DRV Damage: X Trash/Dumping: _____ Area Brushed: X Grazing: _____

Comments: Heavy use by illegal aliens and border patrol. Trampling by

cattle substantial. Pools could recover with proper management.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Open space, but severely disturbed. May be

site of future sewage disposal lines. Residential devel. proposed.

F. Management Recommendations: Without a profound change in the border

situation, little can be done to protect or enhance these pools.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA

City Code: Jb

: _____

F&G Code: J 12⁺

Investigators: E. T. Bauder et al. (1985)

Recon Code: _____

: J. Vanderwier (1986)

Map Pg#: 74: D 5

Date Of Survey: 4/29/85, 4/30/86, 6/9/86

A. # Pools in F&G Report: 2 #in Recon Report: _____ # Observed (if changed): 3

Discussion: Includes former J 31 pool.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: X Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: X

EA: U to C

Pool Depth: Deep: X Med: _____ Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: X

OC: U (1), C (1)

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: X grassland: X

IO: C (0)

Other: Succulent scrub on surrounding slopes.

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: X Medium: X Low: _____ Assoc Habitat: High: X Med: _____ Low: _____

ORV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: X

Comments: Severe disturbance by illegal alien traffic and grazing cattle.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Undeveloped. Proposed sewer line and residen-

: tial development. Illegal alien traffic.

F. Management Recommendations: Fence. Recovery and enhancement of these

: pools not possible without a change in the border situation.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA

City Code: J 13

: _____

F&G Code: J 13N⁺

Investigators: E.T. Bauder, C.R. Scheidlinger

Recon Code: _____

: T. Cass

Map Pg#: 72: D 4

Date Of Survey: 4/14/86

A. # Pools in F&G Report: _____ #in Recon Report: _____ # Observed(if changed): 1

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: _____ Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: _____

EA: C

Pool Depth: Deep: _____ Med: X Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: _____

OC: C

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

NF: C

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

IO: _____

Other: _____

MF: _____

MA: C ?

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: X Low: _____ Assoc Habitat: High: X Med: _____ Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: X

Comments: Heavy grazing, but pool probably could recover with fencing.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: _____ Mesatop: X

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Residential, grazing, and illegal alien

: traffic.

F. Management Recommendations: Fence out cattle. Protect from likely

: development in surrounding area.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA

City Code: J 13

: _____

F&G Code: J 138⁺

Investigators: E.T. Bauder, C.R. Scheidlinger

Recon Code: _____

: T. Cass

Map Pg#: 72: D 4

Date Of Survey: 4/14/86

A. # Pools in F&G Report: 4 #in Recon Report: _____ # Observed (if changed): 5

Discussion: _____
: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: X Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: X Low: _____

EA: C (+)

Pool Depth: Deep: X Med: X Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: X Low: _____

OC: C (o), U (-)

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

NF: C (+)

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

IO: _____

Other: _____

MF: _____

MA: C (+) ?

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: X Medium: X Low: _____ Assoc Habitat: High: X Med: X Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: X

Comments: Heavy grazing, but pools probably could recover with fencing.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: _____ Mesatop: X

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Residential, grazing, and illegal alien
: traffic.

F. Management Recommendations: Fence out cattle. Protect from likely

: development in surrounding area.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA

City Code: J 14

: _____

F&G Code: J 14

Investigators: E.T. Bauder, C.R. Scheidlinger

Recon Code: _____

: T. Cass

Map Pg#: 72: E 6

Date Of Survey: 4/14/86

A. # Pools in F&G Report: 2 # in Recon Report: _____ # Observed (if changed): _____

Discussion: Westernmost occurrence of Poogyne nudiuscula.

: _____

B. Site Description:

Pool Size: Large: _____ Medium: _____ Small: X

Pool Size Diversity: High: _____ Med: _____ Low: X

Pool Depth: Deep: _____ Med: _____ Shallow: X

Pool Depth Diversity: High: _____ Med: _____ Low: X

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

Associated Habitat: Mixed Chaparral: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

Other: Agriculture.

C. Species Presence/Absence

PA: _____

EA: _____

PN: C (1 pool)

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: _____

Comments: PN population

: is only 3m².

: _____

D. Site Disturbance:

Pools: High: X Medium: _____ Low: _____ Assoc Habitat: High: X Med: _____ Low: _____

ORV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: Adjacent area has been cultivated. Pools are in the center of

: a dirt road.

E. Site Defensibility:

Dist. to Travelled Roads: in one Dist. to Natural Open Space: to east

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Agriculture, agricultural implement store,

: truck storage.

F. Management Recommendations: No reasonable scheme to protect this

: population seems evident. Would probably recover if fenced.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA

City Code: Jc

: _____

F&G Code: J 15

Investigators: Julie M. Vanderwier

Recon Code: _____

: _____

Map Pg#: 74: E 5

Date Of Survey: 2/7 & 14/86

A. # Pools in F&G Report: 3 # in Recon Report: _____ # Observed (if changed): _____

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: X Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: _____

EA: U (o)

Pool Depth: Deep: _____ Med: _____ Shallow: X

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: X

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: X Medium: _____ Low: _____ Assoc Habitat: High: X Med: _____ Low: _____

ORV Damage: X Trash/Dumping: X Area Brushed: _____ Grazing: _____

Comments: Illegal alien traffic.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: 1/4 mile

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Undeveloped.

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: UTAY MESA

City Code: Jc

: _____

F&G Code: J 16-18

Investigators: _____

Recon Code: _____

: _____

Map Pg#: 74: E 5

Date Of Survey: spring 1986

A. # Pools in F&G Report: 11 #in Recon Report: _____ # Observed(if changed): ?

Discussion: These pools are very difficult to reach and in an area of
intense illegal alien traffic. They were not visited.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: _____

EA: _____

Pool Depth: Deep: _____ Med: _____ Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: _____

IO: _____

Other: _____

MF: _____

MA: _____

Comments: Eryngium was
reported from all 3
groups in 1979.

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: _____ Assoc Habitat: High: X Med: _____ Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: ?

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Undeveloped. High disturbance primarily due

to illegal alien traffic.

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: QTAY MESA

City Code: J 19

: _____

F&G Code: J 19

Investigators: Ellen T. Bauder

Recon Code: _____

: T. Cass

Map Pg#: 74N: B5

Date Of Survey: 4/22/86

A. # Pools in F&G Report: 11 #in Recon Report: _____ # Observed(if changed): 1

Discussion: These pools were lost to plowing. The remaining pool was
recently plowed, plants in overturned clods were green.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large:___ Medium: X Small:___
Pool Size Diversity: High:___ Med:___ Low: X
Pool Depth: Deep:___ Med: X Shallow:___
Pool Depth Diversity: High:___ Med:___ Low: X
Cobble Size: Large:___ Med:___ Small:___ None: X
Associated Habitat: Mixed Chaparral:___
Chamise:___ Coastal sage scrub:___ grassland:___
Other: Agriculture.

PA: _____
EA: _____
PN: _____
OC: _____
NF: ?
BO: _____
IO: _____
MF: _____
MA: _____
Comments: EA & OC seen
here in 1979.

D. Site Disturbance:

Pools: High: X Medium:___ Low:___ Assoc Habitat: High: X Med:___ Low:___
ORV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing:___
Comments: Plowed for agriculture.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon:___ Mesatop:___
If yes, Open Space Protected:___ Open Space Unprotected:___

Surrounding Land Use: Agriculture.

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA
: _____

City Code: J 20

F&G Code: J 20

Investigators: Ellen T. Bauder
: T. Cass

Recon Code: _____

Map Pg#: 74N: B 5

Date Of Survey: 4/22/86

A. # Pools in F&G Report: 1 #in Recon Report: _____ # Observed(if changed): 0

Discussion: This area has been plowed. There is white clay soil and
moisture-loving spp. such as Eleocharis macrostachys.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large:___ Medium:___ Small:___
Pool Size Diversity: High:___ Med:___ Low:___
Pool Depth: Deep:___ Med:___ Shallow:___
Pool Depth Diversity: High:___ Med:___ Low:___
Cobble Size: Large:___ Med:___ Small:___ None:___
Associated Habitat: Mixed Chaparral:___
Chamise:___ Coastal sage scrub:___ grassland:___
Other: _____

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BQ: _____
IO: _____
MF: _____
MA: _____
Comments: EA & MA seen
here in 1979.
: _____

D. Site Disturbance:

Pools: High:___ Medium:___ Low:___ Assoc Habitat: High:___ Med:___ Low:___
ORV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing:___
Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____
Connection to Natural Open Space: _____ Canyon:___ Mesatop:___
If yes, Open Space Protected:___ Open Space Unprotected:___
Surrounding Land Use: _____
: _____

F. Management Recommendations: _____
: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: QTAY MESA

City Code: Je

: _____

F&G Code: J 21

Investigators: Ellen T. Bauder

Recon Code: _____

: T. Cass

Map Pg#: 74N: B 5

Date Of Survey: 4/22/86

A. # Pools in F&G Report: 7 #in Recon Report: _____ # Observed(if changed): _____

Discussion: Overgrown with Lolium, Eryngium, Pogogyne nud., & Myosurus

: min. var. apus seen here in 1979.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: X Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: X Low: _____

EA: _____

Pool Depth: Deep: _____ Med: X Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: X Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

IO: _____

Other: Dense Lolium in pools, Avena on mounds.

MF: _____

MA: _____

Comments: EA, PN, & MA

: found here in 1979.

: _____

D. Site Disturbance:

Pools: High: _____ Medium: X Low: _____ Assoc Habitat: High: X Med: X Low: _____

ORV Damage: _____ Trash/Dumping: X Area Brushed: _____ Grazing: _____

Comments: Mounded topography intact, Site burned 5/86, after initial

: survey.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Plant nursery to west, abandoned egg ranch

: to east.

F. Management Recommendations: Appears that weedy grasses have choked

: out pool species. Remove trash, fence, attempt to reduce grasses.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: QTAY MESA

City Code: J 22

: _____

F&G Code: J 22

Investigators: Ellen T. Bauder

Recon Code: _____

: Dolores Kreager

Map Pg#: 72N:E 5

Date Of Survey: 5/29/86

A. # Pools in F&G Report: 3 #in Recon Report: _____ # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: _____ Medium: _____ Small: X

Pool Size Diversity: High: _____ Med: _____ Low: X

Pool Depth: Deep: _____ Med: _____ Shallow: X

Pool Depth Diversity: High: _____ Med: X Low: _____

Cobble Size: Large: _____ Med: X Small: _____ None: X

Associated Habitat: Mixed Chaparral: _____

Chamise: _____ Coastal sage scrub: X grassland: X

Other: _____

C. Species Presence/Absence

PA: _____

EA: U (2 pools)

PN: _____

OC: _____

NF: C (1), U (2)

BO: _____

IO: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: X Assoc Habitat: High: _____ Med: _____ Low: X

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: ? Grazing: _____

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: < 1/4 mile Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Agriculture, grazing. Site is within

: possible route of SR125.

F. Management Recommendations: Fence.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA
: _____

City Code: Ja

F&G Code: J23-24

Investigators: Ellen T. Bauder
: T. Cass

Recon Code: _____

Map Pg#: 72N: E 3

Date Of Survey: 4/22/86

A. # Pools in F&G Report: 51 #in Recon Report: _____ # Observed(if changed): _____

Discussion: _____
: _____

B. Site Description:

Pool Size: Large: ___ Medium: X Small: X
Pool Size Diversity: High: ___ Med: X Low: ___

Pool Depth: Deep: ___ Med: ___ Shallow: X
Pool Depth Diversity: High: ___ Med: X Low: ___

Cobble Size: Large: X Med: X Small: ___ None: ___

Associated Habitat: Mixed Chaparral: ___
Chamise: ___ Coastal sage scrub: ___ grassland: X

Other: Shrubs and succulents, weedy grasses.

C. Species Presence/Absence

PA: _____

EA: C (o)

PN: C (o), U (o)

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: _____

Comments: PN appears
to be declining-
T. Cass, T. Oberbauer

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: X Assoc Habitat: High: ___ Med: X Low: X
ORV Damage: ___ Trash/Dumping: ___ Area Brushed: ___ Grazing: X

Comments: Mounded topography intact.
: _____

E. Site Defensibility:

Dist. to Travelled Roads: < 1 mile Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: ___
If yes, Open Space Protected: ___ Open Space Unprotected: X

Surrounding Land Use: On a finger mesa with state prison being con-
structed to east, grazing in other three directions.

F. Management Recommendations: Fence. Try to remove weedy grasses
which may be out-competing Pogogyne nudiuscula.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA

City Code: Ja

: _____

F&G Code: J 25

Investigators: Ellen T. Bauder

Recon Code: _____

: T. Cass

Map Pg#: 72N: D 3

Date Of Survey: 4/22/86

A. # Pools in F&G Report: 12 #in Recon Report: _____ # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: _____ Medium: X Small: X
Pool Size Diversity: High: _____ Med: X Low: _____

Pool Depth: Deep: _____ Med: _____ Shallow: X
Pool Depth Diversity: High: _____ Med: X Low: _____

Cobble Size: Large: X Med: X Small: _____ None: _____

Associated Habitat: Mixed Chaparral: _____
Chamise: _____ Coastal sage scrub: X grassland: X

Other: Many weedy grasses.

C. Species Presence/Absence

PA: _____

EA: _____

PN: U (+), C (g)

OC: _____

NF: _____

BO: _____

IQ: C (-)

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: X Low: X Assoc Habitat: High: _____ Med: X Low: _____
ORV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: X

Comments: Some mound-scraping.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: < 1 mile Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: _____
If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: State prison under construction to east,

: grazing to west.

F. Management Recommendations: Fence. Control weedy grasses which

: may be out-competing *Pogogyne nudiuscula*.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: DTAY MESA

City Code: J 26

: _____

F&G Code: J26

Investigators: Ellen T. Bauder

Recon Code: _____

: T. Cass

Map Pg#: 72N: F 3

Date Of Survey: 4/22/86

A. # Pools in F&G Report: 4 # in Recon Report: _____ # Observed (if changed): 35

Discussion: T. Cass made original survey. Wider search of area
: revealed additional pools.

B. Site Description:

Pool Size: Large: _____ Medium: X Small: X

Pool Size Diversity: High: _____ Med: X Low: _____

Pool Depth: Deep: _____ Med: X Shallow: X

Pool Depth Diversity: High: _____ Med: X Low: _____

Cobble Size: Large: X Med: _____ Small: X None: _____

Associated Habitat: Mixed Chaparral: _____

Chamise: X Coastal sage scrub: _____ grassland: X

Other: Mounded topography esp. to west.

C. Species Presence/Absence

PA: _____

EA: U (-), C (o)

PN: A (+), C (o), U (o)

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: U (-)

Comments: PN populations

: very dense with few

: weedy species.

D. Site Disturbance:

Pools: High: _____ Medium: X Low: X Assoc Habitat: High: _____ Med: X Low: X

DRV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: Area to e. of dirt road with Eryngium somewhat disturbed. Area
: to w. of rd. pools are embedded in dense, undisturbed chamise.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Reservoir to southeast, remainder of area

: unused. Limited access rd. may account for lack of disturbance.

F. Management Recommendations: Fence. Rehabilitate Eryngium pools.

: Adjacent to proposed correction facility.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: DTAY MESA

City Code: Je

: To west of J 28 E pools along Media Road.

F&G Code: J 28W⁺

Investigators: E.T. Bauder, C.R. Scheidlinger

Recon Code: _____

: T. Cass

Map Pg#: 74N:B/C 4

Date Of Survey: 4/14/86

A. # Pools in F&G Report: 11 # in Recon Report: _____ # Observed (if changed): _____

Discussion: Only 1-2 pools in this western portion of the site.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: X Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: X

EA: C

Pool Depth: Deep: X Med: _____ Shallow: _____

PN: C

Pool Depth Diversity: High: _____ Med: _____ Low: X

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

NF: C

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

IO: _____

Other: Mounded topography.

MF: _____

MA: _____

Comments: PN growing up
out of pool among
grasses.

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: X Assoc Habitat: High: _____ Med: X Low: X

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: Probably has been seeded with Avena & other grasses.

E. Site Defensibility:

Dist. to Travelled Roads: <1/4 mile Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Residential.

F. Management Recommendations: Fence. Protect from development of

surrounding property.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA City Code: Je

: Along La Media Rd., J 28 E F&G Code: J 28E⁺

Investigators: Ellen T. Bauder Recon Code: _____

: T. Cass Map Pg#: 74N:B/C 4

Date Of Survey: 4/22/86

A. # Pools in F&G Report: 11 # in Recon Report: _____ # Observed (if changed): _____

Discussion: Two other pools to the west discussed as J 28 W.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: X Small: X

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: X

EA: 1 plant

Pool Depth: Deep: _____ Med: X Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: X Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

IO: _____

Other: Dense growth of Lolium. Mounded topog.

MF: _____

MA: _____

Comments: PN, OC, & NF
seen here in 1979.

: _____

D. Site Disturbance:

Pools: High: _____ Medium: X Low: _____ Assoc Habitat: High: _____ Med: X Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: Some mounds scraped. Probably seeded with Avena & Lolium.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Residential, new industrial park to east.

: _____

F. Management Recommendations: Fence. Reduce growth of weedy grasses.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA

City Code: J 29

: _____

F&G Code: J 29

Investigators: Ellen T. Bauder

Recon Code: _____

: T. Cass

Map Pg#: 72: C 4

Date Of Survey: 4/22/86

A. # Pools in F&G Report: 2 #in Recon Report: _____ # Observed(if changed): _____

Discussion: Contains one artificial pond and 2 small pools.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: _____ Small: X

PA: _____

Pool Size Diversity: High: X Med: _____ Low: _____

EA: C (1 pool)

Pool Depth: Deep: X Med: _____ Shallow: X

PN: U (1 pool)

Pool Depth Diversity: High: X Med: _____ Low: _____

OC: _____

Cobble Size: Large: X Med: _____ Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

IO: _____

Other: Mounded topography outside stock fence.

MF: _____

MA: _____

Comments: PN not found here in 1979, OC found in 1979.

D. Site Disturbance:

Pools: High: X Medium: _____ Low: X Assoc Habitat: High: _____ Med: X Low: X

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: X

Comments: Stock pond disturbed, other 2 small pools outside stock fence

: have little disturbance.

E. Site Defensibility:

Dist. to Travelled Roads: 1/2 mile Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Grazing.

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY MESA

City Code: J 30

: _____

F&G Code: J 30

Investigators: Ellen T. Bauder

Recon Code: _____

: T. Cass

Map Pg#: 72: C 4

Date Of Survey: 4/22/86

A. # Pools in F&G Report: 10 #in Recon Report: _____ # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size! Large:___ Medium: X Small: X

Pool Size Diversity! High:___ Med: X Low:___

Pool Depth! Deep:___ Med: X Shallow:___

Pool Depth Diversity! High:___ Med: X Low:___

Cobble Size! Large: X Med: X Small: X None:___

Associated Habitat! Mixed Chaparral:___

Chamise:___ Coastal sage scrub: X grassland: X

Other: Mounded topo., succulents, native grass

C. Species Presence/Absence

PA: _____

EA: C (o), U (o)

PN: C (o), U (-)

OC: _____

NF: _____

BO: _____

IO: C (-)

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools! High:___ Medium:___ Low: X Assoc Habitat! High:___ Med:___ Low: X

ORV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing: X

Comments: Weedy grasses not dense, Dirt road across pasture provides

: access to the site.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop:___

If yes, Open Space Protected:___ Open Space Unprotected: X

Surrounding Land Use: Natural slope to north, grazing to south.

: _____

F. Management Recommendations: Fence.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY RIVER

City Code: K 2

: _____

F&G Code: K 2

Investigators: Ellen T. Bauder

Recon Code: _____

: Dolores Kreager

Map Pg#: 72: F 3

Date Of Survey: 5/28/86

A. # Pools in F&G Report: 1 #in Recon Report: _____ # Observed(if changed): _____

Discussion: This pool was not relocated. Area is grazed but otherwise
undisturbed. Navarretia fossalis reported here in 1979.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: _____

Pool Size Diversity: High: _____ Med: _____ Low: _____

Pool Depth: Deep: _____ Med: _____ Shallow: _____

Pool Depth Diversity: High: _____ Med: _____ Low: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

Associated Habitat: Mixed Chaparral: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

Other: _____

PA: _____

EA: _____

PN: _____

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: _____ Assoc Habitat: High: _____ Med: X Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: X

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Rock quarry to west, agriculture & grazing to

south, east, and north.

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY RIVER

City Code: K 3-5

: _____

F&G Code: K 3-5

Investigators: Ellen T. Bauder

Recon Code: _____

: Pamela J. Garrett

Map Pg#: 407: F 5

Date Of Survey: 5/21/86

A. # Pools in F&G Report: 6 #in Recon Report: _____ # Observed(if changed): 22

Discussion: Discrepancy in pool numbers results from considering K 5
area as many separate pools rather than a large pool.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: X Small: X

PA: _____

Pool Size Diversity: High: X Med: _____ Low: _____

EA: A (o), C (-)

Pool Depth: Deep: _____ Med: X Shallow: X

PN: _____

Pool Depth Diversity: High: _____ Med: X Low: _____

OC: _____

Cobble Size: Large: X Med: _____ Small: _____ None: _____

NF: U (-)

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: X grassland: X

ID: _____

Other: Mounded topography, native grasses

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: X Assoc Habitat: High: _____ Med: _____ Low: X

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: Reached by a restricted access dirt road or motorboat across
the adjacent reservoir. Very low disturbance.

E. Site Defensibility:

Dist. to Travelled Roads: 1-2 miles Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: _____ Mesatop: X

If yes, Open Space Protected: X Open Space Unprotected: _____

Surrounding Land Use: Peninsula between two fingers of Upper Otay

: Reservoir which is to the west.

F. Management Recommendations: Fence to east if access by dirt road

: increases.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: DTAY RIVER
: _____

City Code: K 6

F&G Code: K 6

Investigators: Ellen T. Bauder
: T. Cass

Recon Code: _____

Map Pg#: 407: F 5

Date Of Survey: 4/22/86

A. # Pools in F&G Report: 2 #in Recon Report: _____ # Observed(if changed): _____

Discussion: Many depressions which are poorly developed pools.
: _____

B. Site Description:

Pool Size: Large:___ Medium:___ Small: X
Pool Size Diversity: High:___ Med:___ Low: X
Pool Depth: Deep:___ Med:___ Shallow: X
Pool Depth Diversity: High:___ Med:___ Low: X
Cobble Size: Large:___ Med:___ Small:___ None:___
Associated Habitat: Mixed Chaparral:___
Chamise:___ Coastal sage scrub: X grassland: X
Other: Mounded topography.

C. Species Presence/Absence

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: C (1 pool)

Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High:___ Medium:___ Low: X Assoc Habitat: High:___ Med: X Low:___
ORV Damage:___ Trash/Dumping:___ Area Brushed: X Grazing: X

Comments: Many weedy grasses.
: _____

E. Site Defensibility:

Dist. to Travelled Roads: < 1/2 mile Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X
If yes, Open Space Protected:___ Open Space Unprotected: X

Surrounding Land Use: Grazing.
: _____

F. Management Recommendations: Nothing needed unless surrounding land

: use changes.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: OTAY RIVER

City Code: Kb

: _____

F&G Code: K 7

Investigators: Ellen T. Bauder

Recon Code: _____

: Pamela J. Garrett

Map Pg#: 407: F 4

Date Of Survey: 5/21/86

A. # Pools in F&G Report: 1 #in Recon Report: _____ # Observed(if changed): 2

Discussion: Perhaps remnant of pool system extending to south across
the road.

B. Site Description:

Pool Size: Large: _____ Medium: _____ Small: X

Pool Size Diversity: High: _____ Med: _____ Low: X

Pool Depth: Deep: _____ Med: _____ Shallow: X

Pool Depth Diversity: High: _____ Med: _____ Low: X

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

Associated Habitat: Mixed Chaparral: _____

Chamise: _____ Coastal sage scrub: X grassland: X

Other: _____

C. Species Presence/Absence

PA: _____

EA: _____

PN: _____

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: _____

Comments: MA found here
in 1979.

D. Site Disturbance:

Pools: High: _____ Medium: X Low: _____ Assoc Habitat: High: X Med: X Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: X

Comments: Heavily grazed.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: _____ Mesatop: X

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Grazing.

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: SAN MARCOS

City Code: _____

: _____

F&G Code: L 1-6

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 16: A 6

Date Of Survey: 5/30/86

A. # Pools in F&G Report: 8 #in Recon Report: _____ # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large:___ Medium: X Small: X

Pool Size Diversity: High:___ Med: X Low:___

Pool Depth: Deep:___ Med:___ Shallow: X

Pool Depth Diversity: High:___ Med: X Low:___

Cobble Size: Large:___ Med:___ Small:___ None:___

Associated Habitat: Mixed Chaparral:___

Chamise:___ Coastal sage scrub:___ grassland: X

Other: Mounded topography.

PA: _____

EA: U (o)

PN: _____

OC: _____

NF: _____

BO: C

IO: _____

MF: _____

MA: _____

Comments: NF seen 1979.

: NF and IO seen by

: W. Armstrong 4/86

D. Site Disturbance:

Pools: High:___ Medium:___ Low: X Assoc Habitat: High:___ Med: X Low:___

ORV Damage: X Trash/Dumping: X Area Brushed:___ Grazing:___

Comments: A dirt road cuts across the property on an angle.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon:___ Mesatop:___

If yes, Open Space Protected:___ Open Space Unprotected:___

Surrounding Land Use: Industrial parks.

: _____

F. Management Recommendations: Fence, remove trash. Pools in quite

: good condition, apparently ignored by people who frequent area.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: SAN MARCOS

City Code: _____

: _____

F&G Code: L 7-8

Investigators: Wayne Armstrong

Recon Code: _____

: _____

Map Pg#: 16: A 6

Date Of Survey: 6/16/86

A. # Pools in F&G Report: 4 #in Recon Report: _____ # Observed(if changed): 0

Discussion: These pools were lost to development of an industrial
park.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large:___ Medium:___ Small:___

PA: _____

Pool Size Diversity: High:___ Med:___ Low:___

EA: _____

Pool Depth: Deep:___ Med:___ Shallow:___

PN: _____

Pool Depth Diversity: High:___ Med:___ Low:___

OC: _____

Cobble Size: Large:___ Med:___ Small:___ None:___

NF: _____

Associated Habitat: Mixed Chaparral:___

BO: _____

Chamise:___ Coastal sage scrub:___ grassland:___

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High:___ Medium:___ Low:___ Assoc Habitat: High:___ Med:___ Low:___

ORV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing:___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon:___ Mesatop:___

If yes, Open Space Protected:___ Open Space Unprotected:___

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: SAN MARCOS

City Code: _____

: _____

F&G Code: L 9-10

Investigators: Wayne Armstrong

Recon Code: _____

: _____

Map Pg#: 16: A 6

Date Of Survey: 6/16/86

A. # Pools in F&G Report: 5 #in Recon Report: _____ # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: X Medium: _____ Small: _____
Pool Size Diversity: High: _____ Med: X Low: _____

Pool Depth: Deep: _____ Med: X Shallow: _____
Pool Depth Diversity: High: _____ Med: X Low: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

Associated Habitat: Mixed Chaparral: _____
Chamise: _____ Coastal sage scrub: _____ grassland: X

Other: _____

C. Species Presence/Absence

PA: _____

EA: C

PN: _____

OC: _____

NF: _____

BO: C

IO: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: _____ Assoc Habitat: High: _____ Med: _____ Low: _____
ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____
If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Industrial parks.

: _____

F. Management Recommendations: Fence.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: SAN MARCOS
: _____

City Code: _____
F&G Code: L11-13

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: _____
Map Pg#: 16: A 6

Date Of Survey: 5/30/86

A. # Pools in F&G Report: 7 # in Recon Report: _____ # Observed (if changed): _____

Discussion: _____
: _____

B. Site Description:

Pool Size: Large: ___ Medium: X Small: ___
Pool Size Diversity: High: ___ Med: X Low: ___
Pool Depth: Deep: ___ Med: X Shallow: ___
Pool Depth Diversity: High: ___ Med: X Low: ___
Cobble Size: Large: ___ Med: ___ Small: ___ None: X
Associated Habitat: Mixed Chaparral: ___
Chamise: ___ Coastal sage scrub: ___ grassland: X
Other: Mounded topography.

C. Species Presence/Absence

PA: _____
EA: C (+)
PN: _____
OC: _____
NF: _____
BO: C (+)
IO: _____
MF: _____
MA: _____
Comments: NF seen in
: 1979.
: _____

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: X Assoc Habitat: High: ___ Med: X Low: X
ORV Damage: ___ Trash/Dumping: X Area Brushed: ___ Grazing: ___

Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: ___ Mesatop: ___
If yes, Open Space Protected: ___ Open Space Unprotected: ___

Surrounding Land Use: Industrial parks.
: _____

F. Management Recommendations: Fence. Remove trash.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: CHULA VISTA City Code: _____
: north of E. J Street F&G Code: M 1⁺

Investigators: Ellen T. Bauder Recon Code: _____
: Dolores Kreager Map Pg#: 70: D 5

Date Of Survey: 5/28/86

A. # Pools in F&G Report: 1 #in Recon Report: _____ # Observed (if changed): 3

Discussion: Previously mapped as southern portion of M 3.

B. Site Description:

Pool Size: Large: ___ Medium: X Small: ___
Pool Size Diversity: High: ___ Med: ___ Low: X
Pool Depth: Deep: ___ Med: ___ Shallow: X
Pool Depth Diversity: High: ___ Med: ___ Low: X
Cobble Size: Large: ___ Med: X Small: ___ None: ___
Associated Habitat: Mixed Chaparral: ___
Chamise: ___ Coastal sage scrub: ___ grassland: X
Other: Small finger mesa.

C. Species Presence/Absence

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: X Medium: ___ Low: ___ Assoc Habitat: High: ___ Med: X Low: ___
ORV Damage: X Trash/Dumping: X Area Brushed: ___ Grazing: ___

Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: ___
If yes, Open Space Protected: ___ Open Space Unprotected: X

Surrounding Land Use: Residential.
: _____

F. Management Recommendations: _____
: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: CHULA VISTA

City Code: M 2

: _____

F&G Code: M 2

Investigators: Ellen T. Bauder

Recon Code: _____

: Dolores Kreager

Map Pg#: 72: D 2

Date Of Survey: 5/28/86

A. # Pools in F&G Report: 2 #in Recon Report: _____ # Observed(if changed): _____

Discussion: One pool is crossed by a dirt road and has been filled
:with gravel. It is essentially gone.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: X Small: X

Pool Size Diversity: High: _____ Med: _____ Low: X

Pool Depth: Deep: _____ Med: _____ Shallow: X

Pool Depth Diversity: High: _____ Med: _____ Low: X

Cobble Size: Large: _____ Med: _____ Small: X None: X

Associated Habitat: Mixed Chaparral: _____

Chamise: _____ Coastal sage scrub: X grasslands: X

Other: _____

PA: _____

EA: _____

PN: _____

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: _____

Comments: NF seen here

: in 1979. Ferocactus.

: _____

D. Site Disturbance:

Pools: High: X Medium: X Low: _____ Assoc Habitat: High: _____ Med: X Low: X

ORV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: Gravel dumped in one pool to form road bed.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Otay Ranch to north and east, Otay landfill

: to west. Open space disturbed by grazing and agriculture.

F. Management Recommendations: Fence.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: CHULA VISTA

City Code: M 3

: _____

F&G Code: M 3

Investigators: Ellen T. Bauder

Recon Code: _____

: Dolores Kreager

Map Pg#: 70: D 4

Date Of Survey: 5/28/86

A. # Pools in F&G Report: _____ # in Recon Report: _____ # Observed (if changed): 4

Discussion: The southern portion of this group has been given the
: code number M 1. It has 3 pools. M 3 has 4 pools.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: X

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: X

EA: _____

Pool Depth: Deep: _____ Med: _____ Shallow: X

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: X

OC: _____

Cobble Size: Large: _____ Med: _____ Small: X None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: X grassland: X

ID: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: X Medium: X Low: _____ Assoc Habitat: High: X Med: _____ Low: X

ORV Damage: X Trash/Dumping: X Area Brushed: _____ Grazing: _____

Comments: Site divided by H Street. Northern portion used by off-road
: vehicles and for dumping.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Residential.

: _____

F. Management Recommendations: This area is proposed for residential

: development.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: CHULA VISTA

City Code: M 4

: _____

F&G Code: M 4

Investigators: Ellen T. Bauder

Recon Code: _____

: Dolores Kreager

Map Pg#: 72: D 2

Date Of Survey: 5/28/86

A. # Pools in F&G Report: 7 #in Recon Report: _____ # Observed(if changed): _____

Discussion: Two medium pools in dirt road nearly destroyed.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: X Small: X
Pool Size Diversity: High: _____ Med: X Low: _____

Pool Depth: Deep: _____ Med: _____ Shallow: X
Pool Depth Diversity: High: _____ Med: X Low: _____

Cobble Size: Large: _____ Med: X Small: _____ None: X

Associated Habitat: Mixed Chaparral: _____
Chamise: _____ Coastal sage scrub: X grassland: X

Other: Native grasses and Ferocactus.

PA: _____

EA: _____

PN: _____

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: C (o)

Comments: MA not seen in
1979. Ferocactus.

: _____

D. Site Disturbance:

Pools: High: X Medium: X Low: _____ Assoc Habitat: High: _____ Med: X Low: _____
ORV Damage: X Trash/Dumping: X Area Brushed: _____ Grazing: _____

Comments: Dirt road bisecting area has damaged the two largest pools.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X
If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Otay Ranch to north and east, Otay landfill

: to west. Open space disturbed by grazing and agriculture.

F. Management Recommendations: Fence. Remove trash.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MONTGOMERY FIELD
: _____

City Code: _____

F&G Code: N1-4

Investigators: Ellen T. Bauder

Recon Code: N II

: Carla R. Scheidlinger

Map Pg#: 53:E/F 2

Date Of Survey: 4/9/86

A. # Pools in F&G Report: 71 # in Recon Report: 138 # Observed (if changed): 127

Discussion: Discrepancy in numbers may result from counting pools as
groups or individuals. Part of N 2 pools lost.

B. Site Description:

Pool Size: Large: X Medium: X Small: X
Pool Size Diversity: High: X Med: Low:
Pool Depth: Deep: X Med: X Shallow: X
Pool Depth Diversity: High: X Med: Low:
Cobble Size: Large: Med: X Small: None:
Associated Habitat: Mixed Chaparral:
Chamise: X Coastal sage scrub: grassland: X
Other: Mounded topography.

C. Species Presence/Absence

PA: C (o)
EA: _____
PN: _____
OC: _____
NF: _____
BO: A (+)
ID: C (o)
MF: _____
MA: _____
Comments: BO especially
dense. Muilla clev.
very dense.

D. Site Disturbance:

Pools: High: Medium: Low: X Assoc Habitat: High: Med: Low: X
ORV Damage: Trash/Dumping: Area Brushed: Grazing:
Comments: Little disturbance except path to maintain airport landing
lights.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____
Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____
If yes, Open Space Protected: _____ Open Space Unprotected: _____
Surrounding Land Use: Airport and industrial parks. Pools
protected by fence surrounding airport.

F. Management Recommendations: These fine pools are adequately
protected by fence. Care should be taken not to alter drainage.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MONTGOMERY FIELD

City Code: _____

: _____

F&G Code: N 5

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 53: E 2

Date Of Survey: 4/9/86

A. # Pools in F&G Report: 4 #in Recon Report: _____ # Observed(if changed): 0

Discussion: These pools were lost to construction of an industrial
park.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: _____

EA: _____

Pool Depth: Deep: _____ Med: _____ Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: _____

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: _____ Assoc Habitat: High: _____ Med: _____ Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MONTGOMERY FIELD

City Code: _____

: _____

F&G Code: N 6

Investigators: Ellen T. Bauder

Recon Code: N I

: Carla R. Scheidlinger

Map Pg#: 53: E 2

Date Of Survey: 4/9/86

A. # Pools in F&G Report: 34 #in Recon Report: 60 # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large:___ Medium: X Small: X

PA: C (-)

Pool Size Diversity: High:___ Med: X Low:___

EA: _____

Pool Depth: Deep: X Med: X Shallow: X

PN: _____

Pool Depth Diversity: High:___ Med: X Low:___

OC: _____

Cobble Size: Large:___ Med:___ Small:___ None: X

NF: _____

Associated Habitat: Mixed Chaparral:___

BO: C (o)

Chamise: X Coastal sage scrub:___ grasslands: X

IO: C (o)

Other: Marsh exotics-Typha, Scirpus, Cotula

MF: _____

MA: _____

Comments: NF seen here

: in 1979.

: _____

D. Site Disturbance:

Pools: High:___ Medium: X Low:___ Assoc Habitat: High:___ Med: X Low:___

DRV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing:___

Comments: Alteration of drainage has allowed water to stand longer than

: natural pools resulting in heavy growth of marsh exotics.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon:___ Mesatop:___

If yes, Open Space Protected:___ Open Space Unprotected:___

Surrounding Land Use: Airport. Industrial park to north and east.

: Fence appears to provide adequate protection.

F. Management Recommendations: Airport fence affords protection. Try

: to restore natural drainage patterns. Remove exotics.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MISSION VILLAGE

City Code: 0

: _____

F&G Code: 0 1

Investigators: Ellen T. Bauder

Recon Code: 0

: Carla R. Scheidlinger

Map Pg#: 53:D 6

Date Of Survey: 4/7/86

A. # Pools in F&G Report: 6 # in Recon Report: 16 # Observed (if changed): _____

Discussion: Appear to be about 6 pools plus some excavated areas
:with standing water and pool plants growing in them.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: X Small: X
Pool Size Diversity: High: Med: X Low:
Pool Depth: Deep: Med: X Shallow: X
Pool Depth Diversity: High: Med: X Low:
Cobble Size: Large: Med: Small: None: X
Associated Habitat: Mixed Chaparral:
Chamise: Coastal sage scrub: X grassland: X
Other: _____

PA: _____
EA: C (+)
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: Medium: X Low: Assoc Habitat: High: X Med: Low:
ORV Damage: X Trash/Dumping: Area Brushed: X Grazing:
Comments: Adjacent to a sand and gravel extraction site. Vehicle ruts
: may be old.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent
Connection to Natural Open Space: X Canyon: X Mesatop:
If yes, Open Space Protected: Open Space Unprotected: X
Surrounding Land Use: Residential to north, sand and gravel
: extraction to south and west.

F. Management Recommendations: Fencing currently protects site.

: Reclamation permit has been obtained by owner; would allow grading

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: CAMINO RUIZ

City Code: P 1

: _____

F&G Code: P 1-2

Investigators: Ellen T. Bauder

Recon Code: P 1

: Carla R. Scheidlinger

Map Pg#: 39: E 4

Date Of Survey: 4/15/86

A. # Pools in F&G Report: 37 #in Recon Report: 100 # Observed(if changed): 0

Discussion: These pools were destroyed by construction of an
industrial park.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: Small:

PA: _____

Pool Size Diversity: High: Med: Low:

EA: _____

Pool Depth: Deep: Med: Shallow:

PN: _____

Pool Depth Diversity: High: Med: Low:

OC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: grassland:

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: Low: Assoc Habitat: High: Med: Low:

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: GROSSMONT COLLEGE

City Code: 0

: _____

F&G Code: 0 1

Investigators: Ellen T. Bauder

Recon Code: 0

: Carla R. Scheidlinger

Map Pg#: 55: 1 D

Date Of Survey: 4/7/86

A. # Pools in F&G Report: 6 #in Recon Report: 4 # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: X Small: X

PA: _____

Pool Size Diversity: High: Med: Low: X

EA: _____

Pool Depth: Deep: Med: Shallow: X

PN: _____

Pool Depth Diversity: High: Med: Low: X

OC: _____

Cobble Size: Large: X Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: _____

Chamise: Coastal sage scrub: X grassland: X

IO: _____

Other: Mounded topography.

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: X Low: X Assoc Habitat: High: Med: X Low:

ORV Damage: X Trash/Dumping: X Area Brushed: Grazing:

Comments: Part of site recently burned. Dirt road extends length of

: mesa top.

E. Site Defensibility:

Dist. to Travelled Roads: 1/2 mile Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Grossmont College to south, remainder open

: space.

F. Management Recommendations: Remove trash. Fence end towards the

: college.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PROCTOR VALLEY

City Code: R

: _____

F&G Code: R 1

Investigators: Ellen T. Bauder

Recon Code: _____

: Pamela J. Garrett

Map Pg#: 67N: F 6

Date Of Survey: 4/21/86

A. # Pools in F&G Report: 1 # in Recon Report: _____ # Observed (if changed): 5

Discussion: Possibly more pools in this valley.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: X Small: X

PA: _____

Pool Size Diversity: High: _____ Med: X Low: _____

EA: _____

Pool Depth: Deep: _____ Med: X Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: X

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

IO: _____

Other: Mounded topography. Grey clayey soils.

MF: _____

MA: C (2 pools)

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: X Medium: X Low: _____ Assoc Habitat: High: _____ Med: X Low: _____

ORV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: X

Comments: Many scraped mound tops.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: _____ Mesatop: X

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: All open. Grazing.

: _____

F. Management Recommendations: Fence. Remove grazing animals.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: SWEETWATER LAKE

City Code: S

: _____

F&G Code: S 1-3

Investigators: E.T. Bauder, T. Griggs, F. Sproul

Recon Code: _____

: T. Cass, M. McCrary

Map Pg#: 67: F 4-5

Date Of Survey: 4/29/85

A. # Pools in F&G Report: 12 # in Recon Report: _____ # Observed (if changed): _____

Discussion: These pools were surveyed in 1985.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: X

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: X

EA: _____

Pool Depth: Deep: _____ Med: X Shallow: X

PN: _____

Pool Depth Diversity: High: _____ Med: X Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

NF: U (o)

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

ID: _____

Other: Dense growth of exotic grasses.

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: X Assoc Habitat: High: _____ Med: X Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: At some time area may have been seeded to pasture grasses.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Reservoir to north, residential to south and

west. Property owned by city. Watershed for reservoir.

F. Management Recommendations: Fencing.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: RAMONA

City Code: _____

: _____

F&G Code: T 1-5

Investigators: C. R. Scheidlinger

Recon Code: _____

: E. T. Bauder

Map Pg#: 28P: A 6

Date Of Survey: 5/9/86, 6/5/86

A. # Pools in F&G Report: 6 # in Recon Report: _____ # Observed (if changed): 8

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: X Medium: X Small: X

Pool Size Diversity: High: X Med: _____ Low: _____

Pool Depth: Deep: _____ Med: X Shallow: X

Pool Depth Diversity: High: _____ Med: X Low: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

Associated Habitat: Mixed Chaparral: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

Other: Primarily weedy annuals.

C. Species Presence/Absence

PA: _____

EA: _____

PN: _____

OC: _____

NF: U

BO: _____

IO: _____

MF: _____

MA: _____

Comments: M. min. var.

: apus here in 1979.

: _____

D. Site Disturbance:

Pools: High: _____ Medium: X Low: _____ Assoc Habitat: High: X Med: X Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: X

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

: 1/4 mile

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Grazing, airport.

: _____

F. Management Recommendations: Remove grazing animals. Fence.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: LANDMARK

City Code: _____

: _____

F&G Code: U 1-13

Investigators: Ellen T. Bauder

Recon Code: _____

: _____

Map Pg#: 45:D/E4-5

Date Of Survey: 5/15/86

A. # Pools in F&G Report: 263 #in Recon Report: 1495 # Observed (if changed): _____

Discussion: Beauchamp (1982) est. 708 pools. Discrepancy in numbers
: prob. definition of a pool. All agree pools are numerous.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: X Small: X

PA: A (+)

Pool Size Diversity: High: X Med: Low:

EA: C (o)

Pool Depth: Deep: X Med: X Shallow: X

PN: _____

Pool Depth Diversity: High: X Med: Low:

OC: _____

Cobble Size: Large: X Med: X Small: X None:

NF: _____

Associated Habitat: Mixed Chaparral:

BO: C (o)

Chamise: X Coastal sage scrub: grassland: X

IO: C (o)

Other: Mounded topography.

MF: R (-)

MA: _____

Comments: OC seen here

: in 1979.

: _____

D. Site Disturbance:

Pools: High: X Medium: X Low: X Assoc Habitat: High: X Med: X Low: X

ORV Damage: X Trash/Dumping: X Area Brushed: X Grazing:

Comments: Vehicle damage along dirt roads. Dumping at south end.

: Brushing prob. occurred 30-40 yrs. ago. Trash blows-landfill.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: ? Open Space Unprotected:

Surrounding Land Use: Flyover space for Miramar NAS, freeway to e.,

: industrial park to south, landfill to west. Nat'l Landmark desig.

F. Management Recommendations: Construction of SR 52 will destroy pools

: at s. end. Protect from drainage alt. fence to w., remove trash.

Restoration of many pools possible if access is restricted.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: LANDMARK City Code: _____

: _____ F&G Code: U 14

Investigators: C. R. Scheidlinger Recon Code: _____

: _____ Map Pg#: 45: D 5

Date Of Survey: 4/23/86

A. # Pools in F&G Report: _____ #in Recon Report: _____ # Observed(if changed): 7

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large:___ Medium:___ Small:___

Pool Size Diversity: High:___ Med:___ Low:___

Pool Depth: Deep:___ Med:___ Shallow:___

Pool Depth Diversity: High:___ Med:___ Low:___

Cobble Size: Large:___ Med:___ Small:___ None:___

Associated Habitat: Mixed Chaparral:___

Chamise:___ Coastal sage scrub:___ grassland:___

Other: _____

PA: C

EA: C

PN: _____

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High:___ Medium:___ Low:___ Assoc Habitat: High:___ Med:___ Low:___

ORV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing:___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent *Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon:___ Mesatop: X

If yes, Open Space Protected: X Open Space Unprotected:___

Surrounding Land Use: Commercial to south, NAS Miramar to north.

: These pools are in the path of SR 52.

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: LANDMARK

City Code: U XII

: _____

F&G Code: U 18

Investigators: Ellen T. Bauder

Recon Code: U XII

: Pamela J. Garrett

Map Pg#: 45: E 6

Date Of Survey: 6/25/86

A. # Pools in F&G Report: _____ #in Recon Report: 7 # Observed(if changed): 3

Discussion: Pools may not have been lost. The pools observed were
: large, & prev. may have been divided into separate pools.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: X Small: _____

PA: U (o)

Pool Size Diversity: High: _____ Med: _____ Low: X

EA: C (o)

Pool Depth: Deep: X Med: _____ Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: X

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

NF: _____

Associated Habitat: Mixed Chaparral: X

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: _____

IO: _____

Other: Surrounded by Quercus dumosa.

MF: _____

MA: _____

Comments: IO seen in
: 1979.

D. Site Disturbance:

Pools: High: _____ Medium: X Low: _____ Assoc Habitat: High: X Med: _____ Low: _____

ORV Damage: _____ Trash/Dumping: X Area Brushed: _____ Grazing: _____

Comments: Presence of Scirpus alternifolia suggests altered water

: retention charac. towards longer durations.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Industrial parks.

: _____

F. Management Recommendations: Remove trash. Fence.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: SIM J. HARRIS

City Code: V I&II

: _____

F&G Code: V 1-4⁺

Investigators: Ellen T. Bauder

Recon Code: V I&II

: _____

Map Pg#: 45: E/F 3

Date Of Survey: 4/10/86

A. # Pools in F&G Report: 16 #in Recon Report: 40 # Observed(if changed): _____

Discussion: Discrepancy in numbers probably results from clusters

: of pools being counted as individual pools. Recon mapped
: one additional cluster (V II=V 4).

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: X Small: X

PA: C (o)

Pool Size Diversity: High: Med: X Low:

EA: C (o)

Pool Depth: Deep: X Med: X Shallow:

PN: _____

Pool Depth Diversity: High: Med: X Low:

OC: _____

Cobble Size: Large: Med: Small: None:

NF: _____

Associated Habitat: Mixed Chaparral: X

BO: C (o)

Chamise: X Coastal sage scrub: grassland:

IO: C (o)

Other: Wide variety of shrubs.

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: Medium: X Low: X Assoc Habitat: High: Med: Low: X

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: Sandwiched between landfill and Sim J. Harris gravel mining

: operation.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop:

If yes, Open Space Protected: Open Space Unprotected:

Surrounding Land Use: Miramar NAS to north and south, completed

: landfill to w. sand and gravel mining to east. Access difficult.

F. Management Recommendations: Protect from adjacent mining operations

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: SOUTH MIRAMAR NAS

City Code: WI, WII

: _____

F&G Code: W 1-2

Investigators: Ellen T. Bauder

Recon Code: WI, WII

: Pamela J. Garrett

Map Pg#: 45: D 3

Date Of Survey: 4/29/86

A. # Pools in F&G Report: 25 #in Recon Report: 22 # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: ___ Medium: X Small: X

Pool Size Diversity: High: ___ Med: X Low: ___

Pool Depth: Deep: ___ Med: X Shallow: X

Pool Depth Diversity: High: ___ Med: X Low: ___

Cobble Size: Large: ___ Med: ___ Small: X None: ___

Associated Habitat: Mixed Chaparral: ___

Chamise: ___ Coastal sage scrub: ___ grassland: X

Other: Dense stand of exotic annuals.

C. Species Presence/Absence

PA: C (o)

EA: C (o)

PN: _____

OC: _____

NF: _____

BO: C (o)

ID: C (o)

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: X Low: X Assoc Habitat: High: ___ Med: X Low: X

ORV Damage: ___ Trash/Dumping: ___ Area Brushed: X Grazing: ___

Comments: Disturbance not recent but results from cultivation 30-40 yrs.

: ago. Mound tops scraped.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Landfill east, south, west. Miramar NAS to

: north. Ecological Study Area set aside by U.S. Navy.

F. Management Recommendations: Maintain fence. Remove blown-in trash

: from landfill as necessary.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: SOUTH MIRAMAR NAS City Code: W III

: _____ F&G Code: W 3

Investigators: Ellen T. Bauder Recon Code: W III

: Pamela J. Garrett Map Pg#: 45: D 3

Date Of Survey: 4/30/86

A. # Pools in F&G Report: 34 #in Recon Report: 13 # Observed(if changed): _____

Discussion: Discrepancy in numbers not clear. There appear to be
considerably more pools than 13.

B. Site Description:

Pool Size: Large: Medium: X Small: X
Pool Size Diversity: High: Med: X Low:
Pool Depth: Deep: Med: X Shallow: X
Pool Depth Diversity: High: Med: X Low:
Cobble Size: Large: Med: Small: None: X
Associated Habitat: Mixed Chaparral:
Chamise: Coastal sage scrub: grassland: X
Other: _____

C. Species Presence/Absence

PA: A (o), C (-)
EA: U (o)
PN: _____
OC: _____
NF: _____
BO: C to A
IO: _____
MF: _____
MA: _____
Comments: No sensitive
taxa seen in 1979.

D. Site Disturbance:

Pools: High: Medium: X Low: X Assoc Habitat: High: Med: X Low:
ORV Damage: X Trash/Dumping: Area Brushed: X Grazing:
Comments: Has been cultivated but not for 30 years.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____
Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____
If yes, Open Space Protected: _____ Open Space Unprotected: _____
Surrounding Land Use: Landfill on all sides except n. which is NAS
Miramar. This is a fenced Ecological Study Area set aside by U.S.
Navy.

F. Management Recommendations: Maintain fence. Remove blown-in trash
as necessary.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: WEST MIRAMAR NAS

City Code: X(1-3)

: _____

F&G Code: X 1-3

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 45: B 1

Date Of Survey: 4/15/86

A. # Pools in F&G Report: 6 #in Recon Report: _____ # Observed(if changed): _____

Discussion: _____

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: X Small: _____

PA: C (+)

Pool Size Diversity: High: _____ Med: X Low: _____

EA: C (o)

Pool Depth: Deep: X Med: X Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: X Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: X

NF: _____

Associated Habitat: Mixed Chaparral: X

BO: U (-)

Chamise: X Coastal sage scrub: _____ grassland: X

ID: C (-)

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: X Low: X Assoc Habitat: High: _____ Med: _____ Low: X

ORV Damage: X Trash/Dumping: X Area Brushed: X Grazing: _____

Comments: Dirt roads have damaged some pools.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: This is part of Miramar NAS. Industrial park

: and commercial to north 1/4 mile.

F. Management Recommendations: Limit access by dirt roads. Remove

: trash.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: WEST MIRAMAR NAS City Code: X I

: _____ F&G Code: X 4

Investigators: Ellen T. Bauder Recon Code: X I

: Carla R. Scheidlinger Map Pg#: 45: B 1

Date Of Survey: 4/15/86

A. # Pools in F&G Report: 48 #in Recon Report: 90 # Observed(if changed): 33

Discussion: Approx. 15 pools have been lost to commercial develop-
ment on the eastern portion of this area.

B. Site Description:

Pool Size: Large: Medium: X Small: X

Pool Size Diversity: High: Med: X Low:

Pool Depth: Deep: Med: X Shallow: X

Pool Depth Diversity: High: Med: X Low:

Cobble Size: Large: Med: Small: None: X

Associated Habitat: Mixed Chaparral: X

Chamise: X Coastal sage scrub: grassland: X

Other: Mounded topography.

C. Species Presence/Absence

PA: _____

EA: C (o)

PN: _____

OC: _____

NF: _____

BO: C (-)

IO: _____

MF: _____

MA: _____

Comments: Only PA pools

: probably the ones lost

: to construction.

D. Site Disturbance:

Pools: High: X Medium: X Low: Assoc Habitat: High: Med: X Low:

ORV Damage: X Trash/Dumping: Area Brushed: X Grazing:

Comments: Dirt roads provide access.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Industrial and commercial to n. and e.

: Miramar NAS to south and west.

F. Management Recommendations: Limit access. Fence.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: WEST MIRAMAR NAS City Code: _____

: La Jolla Village Drive & Genesee Avenue F&G Code: X 6+

Investigators: Ellen T. Bauder Recon Code: _____

: _____ Map Pg#: 44: E 2

Date Of Survey: 6/6/86

A. # Pools in F&G Report: _____ #in Recon Report: _____ # Observed(if changed): 10

Discussion: These pools were not surveyed in 1979. Westec (11/22/85)

: reports 10 pools. Confirmed by site visit.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: X Small: _____

Pool Size Diversity: High: _____ Med: X Low: _____

Pool Depth: Deep: _____ Med: X Shallow: _____

Pool Depth Diversity: High: _____ Med: X Low: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

Associated Habitat: Mixed Chaparral: _____

Chamise: _____ Coastal sage scrub: _____ grassland: X

Other: White clayey soil.

PA: _____

EA: C (o)

PN: _____

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: _____

Comments: Too late in

: season to view BO or

: IO.

D. Site Disturbance:

Pools: High: X Medium: X Low: _____ Assoc Habitat: High: X Med: X Low: _____

ORV Damage: X Trash/Dumping: X Area Brushed: _____ Grazing: _____

Comments: Last undeveloped parcel in an area of residential and

: commercial use.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Proposed hotel, commercial, residential

: development for this site.

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENDLETON

City Code: _____

: _____

F&G Code: Y 1-3

Investigators: C. R. Scheidlinger

Recon Code: _____

: C. Patterson

Map Pg#: _____

Date Of Survey: 1984/85

A. # Pools in F&G Report: 3 #in Recon Report: _____ # Observed(if changed): 20

Discussion: More extensive survey conducted.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: X Small: X

PA: _____

Pool Size Diversity: High: _____ Med: X Low: _____

EA: C (+)

Pool Depth: Deep: X Med: _____ Shallow: X

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: X grassland: X

ID: _____

Other: Fresh water marsh.

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: X Medium: _____ Low: _____ Assoc Habitat: High: X Med: _____ Low: _____

ORV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: Damage from tanks and other vehicles.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: _____ Mesatop: X

If yes, Open Space Protected: ? Open Space Unprotected: _____

Surrounding Land Use: Camp Pendleton

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENDLETON

City Code: _____

: _____

F&G Code: Y 4

Investigators: C. R. Scheidlinger

Recon Code: _____

: C. Patterson

Map Pg#: _____

Date Of Survey: 1984/85

A. # Pools in F&G Report: 1 #in Recon Report: _____ # Observed(if changed): 4

Discussion: More extensive survey conducted.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: X Small: X

PA: _____

Pool Size Diversity: High: ___ Med: ___ Low: X

EA: C (+)

Pool Depth: Deep: ___ Med: ___ Shallow: X

PN: _____

Pool Depth Diversity: High: ___ Med: ___ Low: X

OC: _____

Cobble Size: Large: ___ Med: ___ Small: ___ None: X

NF: _____

Associated Habitat: Mixed Chaparral: ___

BO: _____

Chamise: ___ Coastal sage scrub: X grassland: X

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: X Low: ___ Assoc Habitat: High: ___ Med: X Low: ___

ORV Damage: X Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: ___ Mesatop: X

If yes, Open Space Protected: ? Open Space Unprotected: ___

Surrounding Land Use: Camp Pendleton

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENDLETON City Code: _____
: _____ F&G Code: Y 5⁺
Investigators: C. R. Scheidlinger Recon Code: _____
: C. Patterson Map Pg#: _____
Date Of Survey: 1984/85

A. # Pools in F&G Report: _____ #in Recon Report: _____ # Observed(if changed): 37

Discussion: Not included in 1979 Fish and Game Survey.
: _____

B. Site Description:

Pool Size: Large: _____ Medium: X Small: X
Pool Size Diversity: High: _____ Med: X Low: _____
Pool Depth: Deep: X Med: _____ Shallow: X
Pool Depth Diversity: High: X Med: _____ Low: _____
Cobble Size: Large: _____ Med: _____ Small: _____ None: X
Associated Habitat: Mixed Chaparral: _____
Chamise: _____ Coastal sage scrub: X grassland: _____
Other: _____

C. Species Presence/Absence

PA: _____
EA: C (+)
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: _____ Medium: X Low: _____ Assoc Habitat: High: _____ Med: X Low: _____
ORV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: _____
Comments: Pools near road with tire tracks; some foxholes near pools.
: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent
Connection to Natural Open Space: X Canyon: _____ Mesatop: X
If yes, Open Space Protected: ? Open Space Unprotected: _____
Surrounding Land Use: Camp Pendleton
: _____

F. Management Recommendations:

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PENDLETON

City Code: _____

: _____

F&G Code: Y 6+

Investigators: C. R. Scheidlinger

Recon Code: _____

: C. Patterson

Map Pg#: _____

Date Of Survey: 1984/85

A. # Pools in F&G Report: _____ # in Recon Report: _____ # Observed (if changed): 4

Discussion: Not in 1979 Fish and Game survey.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: X Small: X

PA: _____

Pool Size Diversity: High: ___ Med: X Low: ___

EA: C (+)

Pool Depth: Deep: ___ Med: ___ Shallow: X

PN: _____

Pool Depth Diversity: High: ___ Med: ___ Low: X

OC: _____

Cobble Size: Large: ___ Med: ___ Small: ___ None: X

NF: _____

Associated Habitat: Mixed Chaparral: ___

BO: _____

Chamise: ___ Coastal sage scrub: ___ grassland: X

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: X Assoc Habitat: High: ___ Med: X Low: ___

ORV Damage: X Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: ___ Mesatop: X

If yes, Open Space Protected: ? Open Space Unprotected: ___

Surrounding Land Use: Camp Pendleton

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: WEST GATE MIRAMAR NAS

City Code: ZII, 25

: _____

F&G Code: Z 1-5

Investigators: Ellen T. Bauder

Recon Code: Z II

: _____

Map Pg#: 39: D 6

Date Of Survey: 4/10/86

A. # Pools in F&G Report: 90 #in Recon Report: 60 # Observed(if changed): _____

Discussion: Discrepancy in numbers may result from counting groups of
individual pools as single pools.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: X Small: X

PA: A (+)

Pool Size Diversity: High: X Med: Low:

EA: C (+)

Pool Depth: Deep: X Med: X Shallow:

PN: _____

Pool Depth Diversity: High: X Med: Low:

OC: _____

Cobble Size: Large: Med: Small: X None:

NF: _____

Associated Habitat: Mixed Chaparral: X

BO: C (o)

Chamise: X Coastal sage scrub: grassland: X

IO: C (-)

Other: _____

MF: _____

MA: _____

Comments: MF seen in

:1979(Recon)

: _____

D. Site Disturbance:

Pools: High: Medium: X Low: X Assoc Habitat: High: Med: X Low: X

ORV Damage: X Trash/Dumping: Area Brushed: X Grazing:

Comments: Dirt road bisects area; disturbance by security road to n. & w

:Brushing at e end only. Miramar NAS fence affords some protection.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop:

If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Commercial and industrial parks to n. and w.,

:Miramar NAS to east & south.

F. Management Recommendations: Restrict vehicle traffic to minimum

:necessary for military purposes.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: WEST GATE MIRAMAR NAS

City Code: Z I

: _____

F&G Code: Z 6-7

Investigators: Ellen T. Bauder

Recon Code: Z I

: _____

Map Pg#: 39: E 5

Date Of Survey: 4/10/86

A. # Pools in F&G Report: 5 # in Recon Report: 14 # Observed (if changed): 9-10

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: Medium: X Small: X

Pool Size Diversity: High: Med: X Low:

Pool Depth: Deep: X Med: X Shallow:

Pool Depth Diversity: High: Med: X Low:

Cobble Size: Large: Med: Small: None:

Associated Habitat: Mixed Chaparral:

Chamise: Coastal sage scrub: grassland: X

Other: Native grasses.

C. Species Presence/Absence

PA: _____

EA: C (o)

PN: _____

OC: _____

NF: _____

BO: C (o)

IO: _____

MF: _____

MA: _____

Comments: PA seen in
1979.

: _____

D. Site Disturbance:

Pools: High: X Medium: X Low: Assoc Habitat: High: X Med: X Low:

ORV Damage: X Trash/Dumping: Area Brushed: X Grazing:

Comments: Highly disturbed area.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Miramar NAS.

: _____

F. Management Recommendations: Fence. Take care not to alter drainage.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: EAST MIRAMAR NAS
: _____

City Code: AA VII

F&G Code: AA 3

Investigators: Ellen T. Bauder
: _____

Recon Code: AA VII

Map Pg#: 46: A 5

Date Of Survey: 5/86

A. # Pools in F&G Report: 16 #in Recon Report: 16 # Observed(if changed): _____

Discussion: _____
: _____

B. Site Description:

Pool Size: Large: X Medium: X Small: X

Pool Size Diversity: High: X Med: Low:

Pool Depth: Deep: X Med: X Shallow: X

Pool Depth Diversity: High: X Med: Low:

Cobble Size: Large: X Med: Small: None:

Associated Habitat: Mixed Chaparral:

Chamise: X Coastal sage scrub: X grassland:

Other: _____

C. Species Presence/Absence

PA: A (+)

EA: C (o)

PN: _____

OC: _____

NF: _____

BO: C (+)

IO: C (o)

MF: _____

MA: _____

Comments: MF seen in
:1979 (Recon).

D. Site Disturbance:

Pools: High: Medium: Low: X Assoc Habitat: High: Med: Low: X

ORV Damage: Trash/Dumping: Area Brushed: Grazing:

Comments: Very little disturbance of any sort.
: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: Open Space Unprotected: X

Surrounding Land Use: Miramar NAS, but SR 52 will be constructed to

:the s. separating this area from AA 4-7, immediately to the south.

F. Management Recommendations: Protect from effects of freeway
:construction.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: EAST MIRAMAR NAS
: _____

City Code: AAVIII
AA IX
F&G Code: AA 4-7

Investigators: Ellen T. Bauder
: _____

Recon Code: AAVIII
AA IX
Map Pg#: 46:A 5

Date Of Survey: 5/86

A. # Pools in F&G Report: 131 #in Recon Report: 88 # Observed(if changed): _____

Discussion: _____
: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: X Small: X
Pool Size Diversity: High: X Med: Low:
Pool Depth: Deep: X Med: X Shallow: X
Pool Depth Diversity: High: X Med: Low:
Cobble Size: Large: X Med: X Small: None:
Associated Habitat: Mixed Chaparral: X
Chamise: X Coastal sage scrub: X grassland:
Other: Mounded topography.

PA: A (+)
EA: _____
PN: _____
OC: _____
NF: _____
BO: A (+)
IO: A (o)
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: Medium: X Low: X Assoc Habitat: High: Med: X Low: X
ORV Damage: X Trash/Dumping: Area Brushed: X Grazing:

Comments: Little disturbance except along dirt road which has limited
access since completion of I-15. Brushed firebreak.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X
If yes, Open Space Protected: X Open Space Unprotected: X

Surrounding Land Use: Miramar NAS, but this area will be isolated
by SR52. Once freeway is complete, access will be very restricted.

F. Management Recommendations: Keep as one unit. Will have freeways on

2 sides, a 4-lane rd to the s, and dedicated open space to the east.
Protect from freeway construction and alteration of watershed.
Rehabilitate damaged pools in dirt roadway.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: TIERRASANTA
: _____

City Code: A III

F&G Code: AA S⁺

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: A III

Map Pg#: 46: b 4

Date Of Survey: 4/9/86

A. # Pools in F&G Report: _____ # in Recon Report: 17 # Observed (if changed): _____

Discussion: _____
: _____

B. Site Description:

Pool Size: Large: X Medium: X Small: X
Pool Size Diversity: High: X Med: _____ Low: _____
Pool Depth: Deep: _____ Med: X Shallow: X
Pool Depth Diversity: High: X Med: _____ Low: _____
Cobble Size: Large: _____ Med: _____ Small: X None: _____
Associated Habitat: Mixed Chaparral: _____
Chamise: X Coastal sage scrub: _____ grassland: X
Other: Mounds well developed.

C. Species Presence/Absence

PA: A (+)
EA: _____
PN: _____
OC: _____
NF: _____
BD: C (o)
ID: C (o)
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: _____ Medium: X Low: X Assoc Habitat: High: _____ Med: _____ Low: X
ORV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: Damage primarily near dirt road which bisects site.
: _____

E. Site Defensibility:

Dist. to Travelled Roads: 1-2 miles Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X
If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: NAS Miramar
: _____

F. Management Recommendations: Fencing to prevent vehicle damage.
: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: EAST MIRAMAR NAS
: _____

City Code: AA II

F&G Code: AA 9⁺

Investigators: Ellen T. Bauder
: _____

Recon Code: AA II

Map Pg#: 40: A 5-6

Date Of Survey: 4/10/86

A. # Pools in F&G Report: _____ # in Recon Report: 18 # Observed (if changed): _____

Discussion: _____
: _____

B. Site Description:

Pool Size: Large: X Medium: X Small: _____
Pool Size Diversity: High: _____ Med: X Low: _____
Pool Depth: Deep: X Med: X Shallow: _____
Pool Depth Diversity: High: _____ Med: X Low: _____
Cobble Size: Large: _____ Med: _____ Small: _____ None: _____
Associated Habitat: Mixed Chaparral: _____
Chamise: _____ Coastal sage scrub: _____ grassland: X
Other: _____

C. Species Presence/Absence

PA: C (+)
EA: _____
PN: _____
OC: _____
NF: _____
BO: C (+)
IO: _____
MF: _____
MA: _____
Comments: EA seen in
3 pools in 1979 (Recon)
: _____

D. Site Disturbance:

Pools: High: _____ Medium: X Low: _____ Assoc Habitat: High: _____ Med: X Low: _____
ORV Damage: X Trash/Dumping: _____ Area Brushed: X Grazing: _____

Comments: Road appears to have a damming effect causing longer than
natural water durations.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: _____
If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Miramar NAS. This area is fenced and has
limited access. It is in the flight approach path.

F. Management Recommendations: Rehabilitate to reestablish more

natural water regime in disturbed pools.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: EAST MIRAMAR NAS

City Code: AA III

: _____

F&G Code: AA 10⁺

Investigators: George Cox

Recon Code: AA III

: _____

Map Pg#: 40: B 6

Date Of Survey: spring, 1986

A. # Pools in F&G Report: _____ # in Recon Report: 14 # Observed (if changed): 44

Discussion: _____

: _____

B. Site Description:

Pool Size: Large: _____ Medium: X Small: _____

Pool Size Diversity: High: X Med: _____ Low: _____

Pool Depth: Deep: _____ Med: X Shallow: _____

Pool Depth Diversity: High: X Med: _____ Low: _____

Cobble Size: Large: _____ Med: _____ Small: X None: _____

Associated Habitat: Mixed Chaparral: _____

Chamise: X Coastal sage scrub: X grassland: X

Other: _____

C. Species Presence/Absence

PA: A (+)

EA: _____

PN: _____

OC: _____

NF: _____

BO: A (+)

IO: C (+)

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: X Low: _____ Assoc Habitat: High: _____ Med: X Low: _____

ORV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: Off road vehicles are tanks.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Miramar NAS. Access to this area is limited.

: _____

F. Management Recommendations: Protect from vehicle damage.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MISSILE ROAD

City Code: BB

: _____

F&G Code: BB1

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 45: E 6

Date Of Survey: 4/7/86

A. # Pools in F&G Report: 9 #in Recon Report: _____ # Observed(if changed): 0

Discussion: This is mostly a vacant lot. The land has been graded
and no pools remain.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large:___ Medium:___ Small:___

PA: _____

Pool Size Diversity: High:___ Med:___ Low:___

EA: _____

Pool Depth: Deep:___ Med:___ Shallow:___

PN: _____

Pool Depth Diversity: High:___ Med:___ Low:___

OC: _____

Cobble Size: Large:___ Med:___ Small:___ None:___

NF: _____

Associated Habitat: Mixed Chaparral:___

BO: _____

Chamise:___ Coastal sage scrub:___ grassland:___

ID: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High:___ Medium:___ Low:___ Assoc Habitat: High:___ Med:___ Low:___

ORV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing:___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon:___ Mesatop:___

If yes, Open Space Protected:___ Open Space Unprotected:___

Surrounding Land Use: _____

: _____

Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: POMERADO ROAD
: _____

City Code: _____

F&G Code: CC 1

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: _____

Map Pg#: 32: F 5

Date Of Survey: 5/30/86

A. # Pools in F&G Report: 2 #in Recon Report: _____ # Observed(if changed): 0

Discussion: This is a cobbled ridge with depressions, but no real
pools were observed. Nearby homes are not new.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large:___ Medium:___ Small:___
Pool Size Diversity: High:___ Med:___ Low:___

Pool Depth: Deep:___ Med:___ Shallow:___
Pool Depth Diversity: High:___ Med:___ Low:___

Cobble Size: Large:___ Med:___ Small:___ None:___

Associated Habitat: Mixed Chaparral:___
Chamise:___ Coastal sage scrub:___ grassland:___

Other: _____

PA: _____

EA: _____

PN: _____

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High:___ Medium:___ Low:___ Assoc Habitat: High:___ Med:___ Low:___
ORV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing:___

Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon:___ Mesatop:___
If yes, Open Space Protected:___ Open Space Unprotected:___

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: POMERADO ROAD
:

City Code: _____

F&G Code: CC 2

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: _____

Map Pg#: 32: F 6

Date Of Survey: 5/30/86

A. # Pools in F&G Report: 10 #in Recon Report: _____ # Observed(if changed): 0

Discussion: Extensive grading has eliminated these pools.
:

B. Site Description:

C. Species Presence/Absence

Pool Size: Large:___ Medium:___ Small:___
Pool Size Diversity: High:___ Med:___ Low:___
Pool Depth: Deep:___ Med:___ Shallow:___
Pool Depth Diversity: High:___ Med:___ Low:___
Cobble Size: Large:___ Med:___ Small:___ None:___
Associated Habitat: Mixed Chaparral:___
Chamise:___ Coastal sage scrub:___ grassland:___
Other: _____

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: _____
Comments: _____
:
:

D. Site Disturbance:

Pools: High:___ Medium:___ Low:___ Assoc Habitat: High:___ Med:___ Low:___
ORV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing:___
Comments: _____
:

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____
Connection to Natural Open Space: _____ Canyon:___ Mesatop:___
If yes, Open Space Protected:___ Open Space Unprotected:___
Surrounding Land Use: _____
:

F. Management Recommendations: _____
:

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: POMERADO ROAD
: _____

City Code: _____

F&G Code: CC 3

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: _____

Map Pg#: 32: E 6

Date Of Survey: 5/30/86

A. # Pools in F&G Report: 1 #in Recon Report: _____ # Observed(if changed): 0?

Discussion: Pool may be lost. Found what might have been a pool in
dense growth of grasses.

B. Site Description:

Pool Size: Large:___ Medium:___ Small:___
Pool Size Diversity: High:___ Med:___ Low:___

Pool Depth: Deep:___ Med:___ Shallow:___
Pool Depth Diversity: High:___ Med:___ Low:___

Cobble Size: Large:___ Med:___ Small:___ None:___

Associated Habitat: Mixed Chaparral:___
Chamise:___ Coastal sage scrub:___ grassland:___

Other: _____

C. Species Presence/Absence

PA: _____

EA: _____

PN: _____

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High:___ Medium:___ Low:___ Assoc Habitat: High:___ Med:___ Low:___
ORV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing:___

Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon:___ Mesatop:___
If yes, Open Space Protected:___ Open Space Unprotected:___

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: POMERADO ROAD

City Code: _____

: _____

F&G Code: CC 4

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 32: E 6

Date Of Survey: 5/30/86

A. # Pools in F&G Report: 1 # in Recon Report: _____ # Observed (if changed): 0?

Discussion: A depression in a dirt road; maybe the remainder of this
: pool.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: ___ Small: ___

PA: _____

Pool Size Diversity: High: ___ Med: ___ Low: ___

EA: _____

Pool Depth: Deep: ___ Med: ___ Shallow: ___

PN: _____

Pool Depth Diversity: High: ___ Med: ___ Low: ___

OC: _____

Cobble Size: Large: ___ Med: ___ Small: ___ None: ___

NF: _____

Associated Habitat: Mixed Chaparral: ___

BO: _____

Chamise: ___ Coastal sage scrub: ___ grassland: ___

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: ___ Assoc. Habitat: High: ___ Med: ___ Low: ___

ORV Damage: ___ Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: ___ Mesatop: ___

If yes, Open Space Protected: ___ Open Space Unprotected: ___

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: POMERADO ROAD
: _____

City Code: _____

F&G Code: CC 5-6

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: _____

Map Pg#: 36: F 1

Date Of Survey: 5/30/86

A. # Pools in F&G Report: 8 #in Recon Report: _____ # Observed(if changed): 3

Discussion: Of the CC 6 pools, 5 were gone to grading & residential
: construction.

B. Site Description:

Pool Size: Large: ___ Medium: ___ Small: X
Pool Size Diversity: High: ___ Med: ___ Low: X
Pool Depth: Deep: ___ Med: X Shallow: X
Pool Depth Diversity: High: ___ Med: ___ Low: X
Cobble Size: Large: ___ Med: X Small: ___ None: X
Associated Habitat: Mixed Chaparral: ___
Chamise: ___ Coastal sage scrub: X grassland: X
Other: _____

C. Species Presence/Absence

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: X Assoc Habitat: High: ___ Med: X Low: X
ORV Damage: ___ Trash/Dumping: ___ Area Brushed: X Grazing: ___

Comments: This is a pool complex remnant on the tip of a finger mesa.
: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: ___ Mesatop: ___
If yes, Open Space Protected: ___ Open Space Unprotected: ___

Surrounding Land Use: Golf course has been built in the adjacent
: canyon to s & w. Residential to north.

F. Management Recommendations: _____
: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: POMERADO ROAD
: _____

City Code: _____

F&G Code: CC 7

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 37: B 2

Date Of Survey: 5/30/86

A. # Pools in F&G Report: 16 #in Recon Report: _____ # Observed(if changed): 7

Discussion: Area has not been altered. Discrepancy in numbers may be
result of including less well developed pools.

B. Site Description:

Pool Size: Large:___ Medium:___ Small: X

Pool Size Diversity: High:___ Med:___ Low: X

Pool Depth: Deep:___ Med:___ Shallow: X

Pool Depth Diversity: High:___ Med:___ Low: X

Cobble Size: Large: X Med:___ Small: X None:___

Associated Habitat: Mixed Chaparral:___

Chamise:___ Coastal sage scrub: X grassland: X

Other: _____

C. Species Presence/Absence

PA: _____

EA: _____

PN: _____

OC: _____

NF: _____

BO: _____

IO: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High:___ Medium: X Low:___ Assoc Habitat: High:___ Med:___ Low: X

ORV Damage: X Trash/Dumping:___ Area Brushed:___ Grazing:___

Comments: A dirt road bisects the area.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: X

If yes, Open Space Protected:___ Open Space Unprotected: X

Surrounding Land Use: Residential to south, open on other three

: sides.

F. Management Recommendations: Limit access. Fence.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: RANCHO BERNARDO
: _____

City Code: _____

F&G Code: DD 1

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: _____

Map Pg#: 31: D 2

Date Of Survey: 5/30/86

A. # Pools in F&G Report: 3 #in Recon Report: _____ # Observed(if changed): _____

Discussion: It was not possible to relocate these pools. The area
appears not to have been altered since the 1979 survey.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: ___ Small: ___
Pool Size Diversity: High: ___ Med: ___ Low: ___
Pool Depth: Deep: ___ Med: ___ Shallow: ___
Pool Depth Diversity: High: ___ Med: ___ Low: ___
Cobble Size: Large: ___ Med: ___ Small: ___ None: ___
Associated Habitat: Mixed Chaparral: ___
Chamise: X Coastal sage scrub: X grassland: X
Other: _____

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: ___ Assoc Habitat: High: ___ Med: ___ Low: X
ORV Damage: X Trash/Dumping: ___ Area Brushed: ___ Grazing: ___
Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent
Connection to Natural Open Space: X Canyon: X Mesatop: X
If yes, Open Space Protected: ___ Open Space Unprotected: X
Surrounding Land Use: Residential to south, agricultural to north
and east.

F. Management Recommendations:

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: RANCHO BERNARDO
: _____

City Code: _____
F&G Code: DD 2-3

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: _____
Map Pg#: 32: A/B 3

Date Of Survey: 5/30/86

A. # Pools in F&G Report: 9 #in Recon Report: _____ # Observed(if changed): 0

Discussion: It appears these pools have been lost to agriculture. Site
was thick with exotic grasses. Occasional tomato seedlings.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: ___ Small: ___
Pool Size Diversity: High: ___ Med: ___ Low: ___
Pool Depth: Deep: ___ Med: ___ Shallow: ___
Pool Depth Diversity: High: ___ Med: ___ Low: ___
Cobble Size: Large: ___ Med: ___ Small: ___ None: ___
Associated Habitat: Mixed Chaparral: ___
Chamise: ___ Coastal sage scrub: ___ grassland: ___
Other: _____

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: ___ Assoc Habitat: High: ___ Med: ___ Low: ___
ORV Damage: ___ Trash/Dumping: ___ Area Brushed: ___ Grazing: ___
Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____
Connection to Natural Open Space: _____ Canyon: ___ Mesatop: ___
If yes, Open Space Protected: ___ Open Space Unprotected: ___
Surrounding Land Use: _____
: _____

F. Management Recommendations:

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: RANCHO BERNARDO
: _____

City Code: _____

F&G Code: DD 4

Investigators: Ellen T. Bauder
: Carla R. Scheidlinger

Recon Code: _____

Map Pg#: 32: C 2

Date Of Survey: 5/30/86

A. # Pools in F&G Report: 3 #in Recon Report: _____ # Observed(if changed): _____

Discussion: _____
: _____

B. Site Description:

Pool Size: Large:___ Medium:___ Small: x
Pool Size Diversity: High:___ Med:___ Low: x
Pool Depth: Deep:___ Med: x Shallow:___
Pool Depth Diversity: High:___ Med:___ Low: x
Cobble Size: Large:___ Med: x Small:___ None:___
Associated Habitat: Mixed Chaparral: x
Chamise:___ Coastal sage scrub: x grassland: x
Other: _____

C. Species Presence/Absence

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High:___ Medium: x Low:___ Assoc Habitat: High: x Med: x Low: x
ORV Damage: x Trash/Dumping:___ Area Brushed:___ Grazing:___

Comments: Adjacent to industrial park fill bank with sprinkler runoff.
: Severe grading on dirt road to west.

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop:___
If yes, Open Space Protected:___ Open Space Unprotected: X

Surrounding Land Use: Industrial park to east, urban reserve open
: space to west. Inaccessible to ordinary vehicles.

F. Management Recommendations: Fence. Protect from sprinkler runoff.
: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR NAS INTERIOR
: _____

City Code: EEI&II
F&G Code: EE 1⁺

Investigators: Ellen T. Bauder
: _____

Recon Code: EEI&II
Map Pg#: 45: D/E 2

Date Of Survey: 4/10/86

A. # Pools in F&G Report: _____ # in Recon Report: 102 # Observed (if changed): _____

Discussion: Beauchamp (1982) calls these pools HH (southern portion) and EE (western portion) and maps approximately 111 pools.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: X Small: _____
Pool Size Diversity: High: X Med: _____ Low: _____
Pool Depth: Deep: X Med: X Shallow: _____
Pool Depth Diversity: High: _____ Med: _____ Low: _____
Cobble Size: Large: _____ Med: _____ Small: X None: _____
Associated Habitat: Mixed Chaparral: _____
Chamise: X Coastal sage scrub: _____ grassland: _____
Other: _____

PA: A (+)
EA: A (o)
PN: _____
OC: _____
NF: _____
BO: A (+)
IO: A (+)
MF: _____
MA: _____
Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: X Assoc Habitat: High: _____ Med: X Low: X
ORV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: Some damage from past military activities. Scattered pieces of equipment.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____
Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____
If yes, Open Space Protected: _____ Open Space Unprotected: _____
Surrounding Land Use: Within the perimeter fence of Miramar NAS.
: Just south of the runways.

F. Management Recommendations: Remove debris as needed. Restrict

: vehicle access to the minimum necessary for military purposes.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR NAS INTERIOR

City Code: EEI&II

: _____

F&G Code: EE 2⁺

Investigators: Ellen T. Bauder

Recon Code: EEI&II

: _____

Map Pg#: 45: E 2

Date Of Survey: 4/10/86

A. # Pools in F&G Report: _____ # in Recon Report: 73 # Observed (if changed): _____

Discussion: Beauchamp (1982) maps approx. the same number of pools (75).

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: X Small: _____

PA: C (o)

Pool Size Diversity: High: _____ Med: X Low: _____

EA: C (+)

PN: _____

Pool Depth: Deep: X Med: X Shallow: _____

OC: _____

Pool Depth Diversity: High: _____ Med: X Low: _____

NF: _____

Cobble Size: Large: _____ Med: _____ Small: X None: _____

BO: C (o)

IO: C (o)

Associated Habitat: Mixed Chaparral: _____

MF: _____

MA: _____

Chamise: X Coastal sage scrub: _____ grassland: _____

Comments: _____

Other: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: X Low: _____ Assoc Habitat: High: _____ Med: X Low: _____

ORV Damage: X Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: Dirt road bisects this area.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Within the perimeter fence of Miramar NAS.

: _____

F. Management Recommendations: Restrict vehicles to road.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR NAS INTERIOR
: _____

City Code: FFI&II

F&G Code: FF 1&2⁺

Investigators: Ellen T. Bauder
: _____

Recon Code: FFI&II

Map Pg#: 45: F 2

Date Of Survey: 4/10/86

A. # Pools in F&G Report: _____ # in Recon Report: 20 # Observed (if changed): _____

Discussion: Not viewed close up. At end of runway and radio truck is
needed to enter this area. Area not disturbed except by
mowing. Included in GG of Beauchamp (1982).

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: ___ Medium: ___ Small: ___

Pool Size Diversity: High: ___ Med: ___ Low: ___

Pool Depth: Deep: ___ Med: ___ Shallow: ___

Pool Depth Diversity: High: ___ Med: ___ Low: ___

Cobble Size: Large: ___ Med: ___ Small: ___ None: ___

Associated Habitat: Mixed Chaparral: ___

Chamise: ___ Coastal sage scrub: ___ grasslands: X

Other: _____

PA: _____

EA: _____

PN: _____

OC: _____

NF: _____

BO: _____

ID: _____

MF: _____

MA: _____

Comments: EA in most
pools. PA in 3 pools in
1979 (Recon).

D. Site Disturbance:

Pools: High: ___ Medium: ___ Low: ___ Assoc Habitat: High: ___ Med: ___ Low: ___

ORV Damage: ___ Trash/Dumping: ___ Area Brushed: ___ Grazing: ___

Comments: Regular mowing.
: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: ___ Mesatop: ___

If yes, Open Space Protected: ___ Open Space Unprotected: ___

Surrounding Land Use: Airport runway.

: _____

F. Management Recommendations: Disturb as little as possible.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR NAS INTERIOR
: _____

City Code: _____

F&G Code: GA

Investigators: Ellen T. Bauder
: _____

Recon Code: _____

Map Pg#: 46: A 2

Date Of Survey: 4/10/86

A. # Pools in F&G Report: _____ # in Recon Report: _____ # Observed (if changed): _____

Discussion: Beauchamp (1982) mapped 7 pools. Unable to relocate pools.

: Found man-made depressions with Psilocarphus & Crassula sp.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: _____

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: _____

EA: _____

Pool Depth: Deep: _____ Med: _____ Shallow: _____

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: _____

OC: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: _____ grassland: _____

IO: _____

Other: _____

MF: _____

MA: _____

Comments: PA seen in

: 1982 (Beauchamp).

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: _____ Assoc Habitat: High: _____ Med: _____ Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR NAS INTERIOR
:

City Code: GG

F&G Code: GG

Investigators: Ellen T. Bauder
:

Recon Code: GG

Map Pg#: 40: A 6

Date Of Survey: 4/10/86

A. # Pools in F&G Report: #in Recon Report: 5 # Observed(if changed):

Discussion: Inaccessible inside fence along runway. Can be viewed
: from other side of fence.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: Medium: X Small:
Pool Size Diversity: High: Med: Low: X
Pool Depth: Deep: Med: X Shallow:
Pool Depth Diversity: High: Med: Low: X
Cobble Size: Large: Med: Small: None:
Associated Habitat: Mixed Chaparral:
Chamise: Coastal sage scrub: grassland: X
Other:

PA:
EA: present
PN:
OC:
NF:
BO:
IO:
MF:
MA:
Comments:
:
:

D. Site Disturbance:

Pools: High: Medium: X Low: Assoc Habitat: High: Med: Low:
ORV Damage: X Trash/Dumping: Area Brushed: Grazing:
Comments: Security patrol passes through at least one pool. Area is
: mowed regularly.

E. Site Defensibility:

Dist. to Travelled Roads: Dist. to Natural Open Space:
Connection to Natural Open Space: Canyon: Mesatop:
If yes, Open Space Protected: Open Space Unprotected:
Surrounding Land Use: Airport runways.
:

F. Management Recommendations: Disturb as little as possible.
:

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: MIRAMAR NAS INTERIOR
: _____

City Code: _____

F&G Code: HH⁺

Investigators: Ellen T. Bauder
: _____

Recon Code: MM

Map Pg#: 39: C 2

Date Of Survey: 4/10/86

A. # Pools in F&G Report: _____ #in Recon Report: 93 # Observed(if changed): _____

Discussion: Beauchamp(1982) mapped and found 42 pools. Discrepancy in
: numbers may result from grouping pools into clusters.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: X Medium: X Small: _____
Pool Size Diversity: High: X Med: _____ Low: _____
Pool Depth: Deep: X Med: X Shallow: _____
Pool Depth Diversity: High: X Med: _____ Low: _____
Cobble Size: Large: _____ Med: _____ Small: _____ None: X
Associated Habitat: Mixed Chaparral: _____
Chamise: X Coastal sage scrub: _____ grasslands: _____
Other: _____

PA: C (+)
EA: C (+)
PN: _____
OC: _____
NF: _____
BO: C (+)
IO: C (-)
MF: _____
MA: _____
Comments: OC found in 82
: (Beauchamp).

D. Site Disturbance:

Pools: High: X Medium: X Low: _____ Assoc Habitat: High: X Med: X Low: _____
ORV Damage: X Trash/Dumping: _____ Area Brushed: X Grazing: _____

Comments: Earth moving and runway construction have altered water regime.
: Some pools quite natural, others more like marshes.

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: adjacent

Connection to Natural Open Space: X Canyon: X Mesatop: _____
If yes, Open Space Protected: _____ Open Space Unprotected: X

Surrounding Land Use: Airport runway to south, open space of
: Miramar NAS to n, e, and west.

F. Management Recommendations: Disturb as little as possible. Limit
: vehicle access.

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: PALOMAR AIRPORT

City Code: _____

: _____

F&G Code: JJ 1

Investigators: _____

Recon Code: _____

: _____

Map Pg#: 19: F 1

Date Of Survey: _____

A. # Pools in F&G Report: _____ #in Recon Report: _____ # Observed(if changed): _____

Discussion: These pools have not been mapped.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: _____
Pool Size Diversity: High: _____ Med: _____ Low: _____

Pool Depth: Deep: _____ Med: _____ Shallow: _____
Pool Depth Diversity: High: _____ Med: _____ Low: _____

Cobble Size: Large: _____ Med: _____ Small: _____ None: _____

Associated Habitat: Mixed Chaparral: _____
Chamise: _____ Coastal sage scrub: _____ grassland: _____

Other: _____

PA: _____
EA: _____
PN: _____
OC: _____
NF: _____
BO: _____
IO: _____
MF: _____
MA: _____

Comments: _____
: _____
: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: _____ Assoc Habitat: High: _____ Med: _____ Low: _____
ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: _____
: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____
If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: _____
: _____

F. Management Recommendations: _____
: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: LAKE MURRAY

City Code: _____

: New pool complex.

F&G Code: KK⁺

Investigators: Ellen T. Bauder

Recon Code: _____

: _____

Map Pg#: 55:A/B 5

Date Of Survey: 5/29/86

A. # Pools in F&G Report: _____ #in Recon Report: _____ # Observed(if changed): 4

Discussion: These pools were not mapped in 1979. Some pools have been
lost in the last few years to a recreation complex(G. Cox)

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: X

PA: _____

Pool Size Diversity: High: _____ Med: _____ Low: X

EA: _____

Pool Depth: Deep: _____ Med: _____ Shallow: X

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: X

OC: _____

Cobble Size: Large: _____ Med: X Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____

BO: _____

Chamise: _____ Coastal sage scrub: X grassland: X

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: X Assoc Habitat: High: _____ Med: X Low: _____

ORV Damage: _____ Trash/Dumping: _____ Area Brushed: _____ Grazing: _____

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____

If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Along road which rims Lake Murray. Used by

hikers and joggers, occasional vehicles.

F. Management Recommendations: _____

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: AMAYA DRIVE

City Code: _____

: _____

F&G Code: LL⁺

Investigators: Ellen T. Bauder

Recon Code: _____

: Carla R. Scheidlinger

Map Pg#: 55: E 5

Date Of Survey: 4/7/86

A. # Pools in F&G Report: _____ #in Recon Report: _____ # Observed(if changed): 2

Discussion: These pools were not mapped in 1979.

: _____

B. Site Description:

C. Species Presence/Absence

Pool Size: Large: _____ Medium: _____ Small: X

PA: C in one pool

Pool Size Diversity: High: _____ Med: _____ Low: X

EA: _____

Pool Depth: Deep: _____ Med: _____ Shallow: X

PN: _____

Pool Depth Diversity: High: _____ Med: _____ Low: X

OC: _____

Cobble Size: Large: X Med: _____ Small: _____ None: _____

NF: _____

Associated Habitat: Mixed Chaparral: _____
Chamise: _____ Coastal sage scrub: X grassland: _____

BO: present

Other: _____

IO: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High: _____ Medium: _____ Low: X Assoc Habitat: High: _____ Med: X Low: _____
ORV Damage: _____ Trash/Dumping: X Area Brushed: _____ Grazing: _____

Comments: Much broken glass, vacant lot sort of debris.

: _____

E. Site Defensibility:

Dist. to Travelled Roads: adjacent Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon: _____ Mesatop: _____
If yes, Open Space Protected: _____ Open Space Unprotected: _____

Surrounding Land Use: Fenced school yard to n, commercial recreation

: center to w, 4 lane road to s, possible route for SR125 freeway.

F. Management Recommendations: Fence. Remove trash.

: _____

SAN DIEGO VERNAL POOL
FIELD SURVEY FORM

Pool Series Location: CUYAMACA LAKE

City Code: _____

: New pool complex.

F&G Code: NN⁺

Investigators: T. Oberbauer

Recon Code: _____

: _____

Map Pg#: 405:E 3-4

Date Of Survey: _____

A. # Pools in F&G Report: _____ #in Recon Report: _____ # Observed(if changed): 24

Discussion: These pools have not been mapped but do contain sensitive
taxa and are surrounded by mounds.

B. Site Description:

C. Species Presence/Absence

Pool Size: Large:___ Medium:___ Small:___

PA: _____

Pool Size Diversity: High:___ Med:___ Low:___

EA: _____

Pool Depth: Deep:___ Med:___ Shallow:___

PN: _____

Pool Depth Diversity: High:___ Med:___ Low:___

OC: _____

Cobble Size: Large:___ Med:___ Small:___ None:___

NF: _____

Associated Habitat: Mixed Chaparral:___

BO: _____

Chamise:___ Coastal sage scrub:___ grassland:___

IO: _____

Other: _____

MF: _____

MA: _____

Comments: _____

: _____

: _____

D. Site Disturbance:

Pools: High:___ Medium:___ Low:___ Assoc Habitat: High:___ Med:___ Low:___

ORV Damage:___ Trash/Dumping:___ Area Brushed:___ Grazing:___

Comments: _____

: _____

E. Site Defensibility:

Dist. to Travelled Roads: _____ Dist. to Natural Open Space: _____

Connection to Natural Open Space: _____ Canyon:___ Mesatop:___

If yes, Open Space Protected:___ Open Space Unprotected:___

Surrounding Land Use: _____

: _____

F. Management Recommendations: _____

: _____

Appendix 7. Preservation status forms, all pool groups. See text for explanation of methods. Pool group numbers with a "+" following are newly mapped or renumbered. See Appendix 1 for old and new numbers.

VERNAL POOL PRESERVATION STATUS

City Code: A I

Pool Series Location: TIERRASANTA

F & G Code: A 1⁺

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: A I

Thos. Map Coord: 46:D 5

Lambert Coord: 242-1737

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 84-0751
Pool # in ()'s : _____

Project name: Tierrasanta Norte III

Tent. Map #: _____ Final EIR date: 12/23/85

Mitigation fees req. am't : \$920 Am't collected: \$920

On-site mitigation: _____

Applicable community plan: Tierrasanta

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>A 1</u>	: <u>373-071-31</u>	: <u>11.62</u>	: <u>Tierrasanta Norte, 225 Broadway,</u>
	: _____	: _____	: <u>San Diego, CA 92101</u>
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

EQD - Environmental Quality Division, City of San Diego
 EN - Engineering Department, City of San Diego
 ASR - Assessor, County of San Diego
 DPLU- Department of Planning & Land Use, County of San Diego
 + Planning or appropriate department for jurisdictions other than City of SD

VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: TIERRASANTA F & G Code: A 3

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: _____

: _____ Thos. Map Coord: 46: C 6

: _____ Lambert Coord: 242-1737

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : _____
Pool # in ()'s : _____

Project name: elementary school site : _____

Tent. Map #: _____ Final EIR date: _____

: _____ : _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: Tierrasanta

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>A 3</u>	<u>373-071-17</u>	<u>13.00</u>	<u>San Diego Unified School District</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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- + Planning or appropriate department for jurisdictions other than City of SD

VERNAL POOL PRESERVATION STATUS

City Code: A II

Pool Series Location: TIERRASANTA

F & G Code: A 4

Data by: Ellen T. Bauder

: _____

Date: 5-6/86 Source(s)*: ASR, J. Rieger

Recon Code: A II

: _____

Thos. Map Coord: 46:04-5

: _____

Lambert Coord: 242-1737

Subject to city plan: a portion If not, jurisdiction: US Navy

CEQA only: X C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: _____

Project proposed: X If so, EQD+# _____
Pool # in ()'s _____

Project name: SR 52

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

A portion of this area was purchased by Caltrans as mitigation for the I-15 extension.

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>A 4</u>	: <u>373-071-63</u>	: <u>51.71</u>	: <u>Caltrans</u>
:	:	:	:
: <u>A 4</u>	: <u>373-071-04</u>	: <u>23.89</u>	: <u>US Navy</u>
:	:	:	:
: <u>A 4</u>	: <u>373-071-05</u>	: <u>15.60</u>	: <u>San Diego Unified School District</u>
:	:	:	:

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+ Planning or appropriate department for jurisdictions other than City of SD

VERNAL POOL PRESERVATION STATUS

City Code: Bc

Pool Series Location: MIRA MESA NORTH F & G Code: B 1-4

Data by: Ellen T. Bauder : B 9-10

Date: 5/19/86 Source(s)*: EQD, EN, ASR Recon Code: BIII-IV

: T. Huffman, W. Graham Thos. Map Coord: 35:C/D6

: _____ Lambert Coord: 274-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: See C 18.

U S F & W Sec. 7 Consultation: See C 18. If yes, #: _____

Project proposed: X If so, EQD+# : 79-0128 (C 17-19)

Pool # in ()'s : 86-0340 (B 1.4.9-10)

Project name: Canyon Country : 85-0494 (B 2)

Tent. Map #: 84-0085, 85-0494 (Unit 3) Final EIR date: 1/12/81

: _____ : _____

Mitigation fees req. am't : \$ 28,000 Am't collected: \$28,000

: Additional \$4,000 required for biological study. No record of expenditure.

On-site mitigation: See C 18.

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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 + Planning or appropriate department for jurisdictions other than City of SD

VERNAL POOL PRESERVATION STATUS

City Code: Bab

Pool Series Location: MIRA MESA NORTH F & G Code: B 5

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: B VI

: J. Nelson, T. Huffman, J. Rieger Thos. Map Coord: 39:B 1

: Lambert Coord: 274-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# : 83-0216 (adj. to east of
Pool # in ()'s

: B 5)

Project name: _____

Tent. Map #: _____ Final EIR date: 10/11/83

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: Off-site mitigation for pool destruction resulting from freeway construction.

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>B 5</u>	: _____	: <u>6.74</u>	: <u>Caltrans</u>
:	: _____	: _____	: _____
: <u>B 5</u>	: <u>308-040-14</u>	: <u>16.86</u>	: <u>Pipefitters Welfare Educ. Fund et al.</u>
:	: _____	: _____	: <u>12385 Larimore Rd., St. Louis, MO 63138</u>
: _____	: _____	: _____	: _____
:	: _____	: _____	: _____

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 + Planning or appropriate department for jurisdictions other than City of SD

VERNAL POOL PRESERVATION STATUS

City Code: Bab

Pool Series Location: MIRA MESA NORTH

F & G Code: B 6

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR, T. Huffman

Recon Code: B IV

: C. Patterson

Thos. Map Coord: 39:B 1

: _____

Lambert Coord: 274-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: Off-site mitigation for Pen. Park View Estates.

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>B 6</u>	: <u>308-040-12</u>	: <u>11.81</u>	: <u>City of San Diego</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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 ASR - Assessor, County of San Diego
 DPLU- Department of Planning & Land Use, County of San Diego
 + Planning or appropriate department for jurisdictions other than City of SD

VERNAL POOL PRESERVATION STATUS

City Code: Bab

Pool Series Location: MIRA MESA NORTH F & G Code: B 7-8

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR, T. Huffman Recon Code: B V

: J. Nelson Thos. Map Coord: 39: B 1

: Lambert Coord: 274-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# : _____
Pool # in ()'s : _____

Project name: _____ : _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: Proposed off-site mitigation for the Sander Project.

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>B 7-8</u>	<u>311-020-5</u>	<u>10.00</u>	<u>Joan Kearney TR c/o Frederick A. Brown</u>
			<u>5814 Sagebrush Road, La Jolla CA 92037</u>

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VERNAL POOL PRESERVATION STATUS

City Code: Be, Bd

Pool Series Location: MIRA MESA NORTH

F & G Code: B 11-13

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, W. Graham

Recon Code: B II

: S. Lacy

Thos. Map Coord: 39:0 1

:

: 35 E 6

Lambert Coord: 274-1713

: 274-1725

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 86-0339 (B 11, 13, 12 s)

Pool # in ()'s : 86-0177 (B 12 north)

Project name: Mirador Park

Tent. Map #: 83-0589, 86-0177, 86-0339

Final EIR date: 12/4/84

Mitigation fees req. am't : \$20,000 est. Am't collected: _____

: Consultant S. Lacy estimated \$20,000 (5/19/86).

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Cb

Pool Series Location: MIRA MESA CENTRAL

F & G Code: C 1

Data by: Ellen T. Bauder

: C 23

Date: 5-6/86 Source(s)*: EQD, EN

Recon Code: C VIII

: _____

Thos. Map Coord: 39: C 3

: _____

Lambert Coord: 266-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 82-0439 (cancelled)

Pool # in ()'s : _____

: 84-0675

Project name: Lusk Mira Mesa Residential

: _____

Tent. Map #: _____

Final EIR date: _____

: _____

: _____

Mitigation fees req. am't : \$32,800 Am't collected: \$32,800

: _____

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: <u>John D. Lusk & Sons, PO Box C-19560</u>
	: _____	: _____	: <u>Irvine, CA 92713</u>
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Cf, Cc

Pool Series Location: MIRA MESA CENTRAL F & G Code: C2, C5-8

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, EN, T. Huffman econ Code: C IV-V

: _____ Thos. Map Coord: 39:0/D3

: _____ Lambert Coord: 266-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ f yes, #: _____

Project proposed: X If so, EQD+# : 77-0419 (C2, C5-8, D9-15,

Pool # in ()'s : _____

: D 17-20)

Project name: Mira Mesa West _____

Tent. Map #: 73-188 Final EIR date: 10/6/77

Mitigation fees req. am't : \$50 per unit Am't collected: ? \$69,400

: EIR states 1422 homes will be built. Records indicate \$5000 went to F & G
: to reimburse for a study on vernal pools. Receipts for \$69,400-source unknown.

On-site mitigation: _____

Applicable community plan: Mira Mesa _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: <u>Pardee Construction Co.</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Cb, Ce, Cf

Pool Series Location: MIRA MESA CENTRAL

F & G Code: C 3-4, 9

Data by: Ellen T. Bauder

: C20-22.25

Date: 5-6/86 Source(s)*: EQD, EN

Recon Code: C IV-V, VII

: _____

Thos. Map Coord: 39:C/D3

: _____

Lambert Coord: 266-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 83-0473
Pool # in ()'s

Project name: Mesa Summit

Tent. Map #: 83-0473 Final EIR date: _____

Mitigation fees req. am't : \$48,800 Am't collected: \$19,192

: Contributed for units 1-5.

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: <u>Pardee Construction Co.</u>
			: <u>10960 Wilshire Blvd., L.A., CA 90024</u>
: _____	: _____	: _____	: _____
			: _____
: _____	: _____	: _____	: _____
			: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Cd

Pool Series Location: MIRA MESA CENTRAL F & G Code: C 10-13

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: C III

: _____ Thos. Map Coord: 39:D 2

: _____ Lambert Coord: 266-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# : _____

Pool # in ()'s : _____

Project name: _____ : _____

Tent. Map #: _____ Final EIR date: _____

: _____ : _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>C10-13</u>	<u>311-030-13</u>	<u>20.0</u>	<u>Cameron Bros. Construction Co.</u>
			<u>7766 Balboa Ave., San Diego, CA 92111</u>

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VERNAL POOL PRESERVATION STATUS

City Code: Cd

Pool Series Location: MIRA MESA CENTRAL

F & G Code: C 14-16

Data by: Ellen T. Bauder

: _____

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: C III

: _____

Thos. Map Coord: 39:D 2

: _____

Lambert Coord: 266-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# _____
Pool # in ()'s _____

Project name: Junior high school

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>:C14+16</u>	<u>:311-030-12</u>	<u>:10.0</u>	<u>:San Diego Unified School District of</u>
	<u>:</u>	<u>:</u>	<u>:San Diego County, CA</u>
<u>:C 15</u>	<u>:311-030-35</u>	<u>:3.47</u>	<u>:San Diego Unified School District of</u>
	<u>:</u>	<u>:</u>	<u>:San Diego County, CA</u>
<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>
<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>

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VERNAL POOL PRESERVATION STATUS

City Code: Ca

Pool Series Location: MIRA MESA CENTRAL F & G Code: C 17

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, EN Recon Code: C II

: _____ Thos. Map Coord: 39:C 2

: _____ Lambert Coord: 266-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 79-0128 (C17-19)
Pool # in ()'s : _____

Project name: Canyon Country : _____

Ent. Map #: 78-376 Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

: Mitigation for all portions of Canyon Country were handled simultaneously.

On-site mitigation: See C 18.

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Ca

Pool Series Location: MIRA MESA CENTRAL

F & G Code: C 18

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR,

Recon Code: C II

: W. Graham, T. Huffman

Thos. Map Coord: 39:0 2

: _____

Lambert Coord: 266-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: 80-F-66

Project proposed: X If so, EQD+# : 79-0128

Pool # in ()'s : _____

Project name: Canyon Country

Tent. Map #: 78-376

Final EIR date: 11/1/79

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: 2.2 acres

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>C 18</u>	: <u>311-384-40</u>	: <u>4.27</u>	: <u>Fieldstone Co.,</u>
:	:	:	: <u>13 Corporate Plaza, Newport Beach</u>
:	:	:	:
:	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: C 19

Pool Series Location: MIRA MESA CENTRAL

F & G Code: C 19

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD Recon Code: _____

: _____ Thos. Map Coord: 39:D 1

: _____ Lambert Coord: 274-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 79-0128
Pool # in ()'s _____

Project name: Canyon Country

Tent. Map #: 78-376 Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

: A. Jones said no vernal pools on site(10/2/81).

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Cb

ol Series Location: MIRA MESA CENTRAL

F & G Code: C 24

Data by: Ellen T. Bauder

Date: 5/19/86 Source(s)*: EOD, ASR

Recon Code: C IX

: _____

Thos. Map Coord: 39: C3

: _____

Lambert Coord: 266-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EOD+# : 84-0130 cancelled

Pool # in ()'s : 85-0551 inactive (5/86)

Project name: Mesa Classic

Tent. Map #: _____

Final EIR date: _____

igation fees req. am't : \$6,440

Am't collected: _____

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>C 24</u>	: <u>341-051-01</u>	: <u>17.49</u>	: <u>Pardee Construction Co., 10639 Santa</u>
:	:	:	: <u>Monica Blvd., Los Angeles, CA 90025</u>
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: Cd

Pool Series Location: MIRA MESA CENTRAL F & G Code: C 26

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: _____

: The location of these pools in relation to Thos. Map Coord: 39:C 2

: surrounding proposed projects is not clear. Lambert Coord: 266-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: ? If so, EQD+# : _____
Pool # in ()'s : _____

Project name: _____ : _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>C 26</u>	: <u>2311-030-13</u>	: <u>20.0</u>	: <u>Cameron Bros. Construction Co.</u>
	: <u>2311-030-12</u>	: <u>10.0</u>	: <u>San Diego Unified School District</u>
: <u>C 26</u>	: <u>2311-031-15</u>	: <u>6.64</u>	: <u>city park</u>
	: <u>2311-031-</u>	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Da

Pool Series Location: MIRA MESA SOUTH F & G Code: D 1-4

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: D III

: _____ Thos. Map Coord: 39: C 4

: _____ Lambert Coord: 266-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 78-1234

Pool # in ()'s : _____

: 82-0003

Project name: Fenton- resource extraction

: 85-0598 amendment

Tent. Map #: _____ Final EIR date: 4/23/85

: _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>D 1-3</u>	<u>341-050-24</u>	<u>80.52</u>	<u>H.G. Fenton Material Co.</u>
	_____	_____	<u>PO Box 64, San Diego, CA 92112</u>
<u>D 4</u>	<u>341-050-25</u>	<u>74.87</u>	<u>H.G. Fenton Material Co.</u>
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

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VERNAL POOL PRESERVATION STATUS

City Code: Db

Pool Series Location: MIRA MESA SOUTH

F & G Code: D 5-8

Data by: Ellen T. Bauder

: D 16

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: D II

: _____ Thos. Map Coord: 39:C/D4

: _____ Lambert Coord: 266-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

: _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>D 5-8</u>	<u>341-050-25</u>	<u>74.87</u>	<u>H. G. Fenton Material Co.</u>
<u>D 16</u>	_____	_____	<u>PO Box 64, San Diego, CA 92112</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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VERNAL POOL PRESERVATION STATUS

City Code: D 9-15

Pool Series Location: MIRA MESA SOUTH F & G Code: D 9-15

Data by: Ellen T. Bauder : D 17-20

Date: 5-6/86 Source(s)*: EQD, EN, T. Huffman Recon Code: _____

: _____ Thos. Map Coord: 39:03-4

: _____ Lambert Coord: 266-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 77-0419P
Pool # in ()'s : _____

Project name: Mira Mesa West : _____

Tent. Map #: 73-188 Final EIR date: 10/6/77

Mitigation fees req. am't : See C 2-8 Am't collected: _____

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Dc

Pool Series Location: MIRA MESA SOUTH F & G Code: D 21-25

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR, EN? Recon Code: D 1

: _____ Thos. Map Coord: 39:D/E4

: _____ Lambert Coord: 266-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 84-0367

Pool # in ()'s : _____

: 84-0777 PID

Project name: LaBarranca Business Park : _____

Tent. Map #: 84-0367 Final EIR date: 8/20/85 ?

: _____ : _____

Mitigation fees req. am't : \$70,600 Am't collected: \$70,600

: _____

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>D21-25</u>	: <u>341-0606-42</u>	: <u>91.53</u>	: <u>Conrock Company</u>
:	: _____	: _____	: <u>PO Box 2950, Term. Annex, L.A. CA 90051</u>
:	: _____	: _____	: _____
:	: _____	: _____	: _____
:	: _____	: _____	: _____
:	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: E

Pool Series Location: KEARNY VILLA SOUTH F & G Code: E 1

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR, P. Fiske Recon Code: _____

: _____ Thos. Map Coord: 45: E 6

: _____ Lambert Coord: 242-1725

Subject to city plan: prior If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 78-1141

Pool # in ()'s : _____

Project name: Meyer Investment Properties : _____

Tent. Map #: _____ Final EIR date: Req. dec. 2/23/79

: _____ :

Mitigation fees req. am't : none Am't collected: _____

: _____

On-site mitigation: none

Applicable community plan: Serra Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: E

Pool Series Location: KEARNY VILLA SOUTH F & G Code: E 2

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR, P. Fiske Recon Code: _____

: _____ Thos. Map Coord: 45: E 6

: _____ Lambert Coord: 242-1725

Subject to city plan: prior If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: _____

Project proposed: X If so, EQD+# : 80-0512 EX
Pool # in ()'s

Project name: Topaz Lot Split

Tent. Map #: PM 01-073-0 Final EIR date: 5/20/80

Mitigation fees req. am't : none Am't collected: _____

: While prior to city plan, was after federal listing of Pogogyne abramsii.

On-site mitigation: none

Applicable community plan: Serra Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: E

Pool Series Location: KEARNY VILLA SOUTH

F & G Code: E 3-5

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR, P. Fiske

Recon Code: _____

Thos. Map Coord: 45: E 6

Lambert Coord: 242-1725

Subject to city plan: prior If not, jurisdiction: _____

CEQA only: x C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 78-0251

Pool # in ()'s _____

Project name: San Diego Investments

Tent. Map #: 78-66

Final EIR date: 2/21/78

Mitigation fees req. am't : none Am't collected: _____

On-site mitigation: none

Applicable community plan: Serra Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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VERNAL POOL PRESERVATION STATUS

City Code: E

Pool Series Location: KEARNY VILLA SOUTH

F & G Code: E 4

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR, P. Fiske

Recon Code: _____

Thos. Map Coord: 45: E 6

Lambert Coord: 242-1725

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Serra Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>E 4</u>	<u>369-210-21</u>	_____	<u>Hawn Foundation, PO Box 109, San Diego</u>
_____	_____	_____	<u>CA 92112</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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VERNAL POOL PRESERVATION STATUS

City Code: F I- V

Pool Series Location: KEARNY VILLA NORTH

F & G Code: F 1-28

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: Caltrans, M. Severance Recon Code: F I-V

Thos. Map Coord: 45:E/F 4-5

Lambert Coord: 242-1725

250-1725

Subject to city plan: _____ If not, jurisdiction: US Navy

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: 1-1-83 F 10

Project proposed: X If so, EQD+# _____
Pool # in ()'s _____

Project name: SR 52

Tent. Map #: _____

Final EIR date: 3/18/85

Mitigation fees req. am't : _____ Am't collected: _____

Off-site mitigation included purchase by Caltrans of portion of H and B series pools.

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>F 1-28</u>	_____	_____	<u>US Navy</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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VERNAL POOL PRESERVATION STATUS

City Code: G

Pool Series Location: TIERRASANTA SOUTH

F & G Code: G 1&2⁺

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, M.J. Elpers,

Recon Code: G

: L. Martin

Thos. Map Coord: 54: B 4

: _____

Lambert Coord: 226-1737

Subject to city plan: _____ If not, jurisdiction: US Navy

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>G 1&2[†]</u>	: _____	: _____	: <u>US Navy</u>
:	: _____	: _____	: _____
:	: _____	: _____	: _____
:	: _____	: _____	: _____
:	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Ha

Pool Series Location: PENASQUITOS NORTH

F & G Code: H 1-3

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR, J. Rieger

Recon Code: H XI

: _____ Thos. Map Coord: 35:C 4

: _____ Lambert Coord: 282-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Future Urban area

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>H 1-2</u>	<u>305-041-01</u>	<u>140.00</u>	<u>Trust Serv. Amer., c/o Jesse H. Wildt,</u> <u>PO Box A-1831, San Diego, CA 92112</u>
<u>H 2</u>	<u>306-050-22</u>	<u>9.00</u>	<u>Joseph E. & James Parmier, 6522 Omega Dr.,</u> <u>San Diego, CA 92139</u>
<u>H 2-3</u>	<u>306-041-03</u>	<u>80.00</u>	<u>Olga Mervynne, 2037 Vista Valley Rim,</u> <u>El Cajon, CA 92021</u>
<u>H 3</u>	<u>306-050-12</u>	<u>20.00</u>	<u>CMR Properties, PO Box 292, La Jolla, CA</u> <u>92038</u>
	<u>309-010-18</u>	<u>29.17</u>	<u>Emma Peinado et al., PO Box 1635,</u> <u>Carlsbad, CA 92008</u>

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VERNAL POOL PRESERVATION STATUS

City Code: Hc

Pool Series Location: PENASQUITOS NORTH

F & G Code: H 4

Data by: Ellen T. Bauder

: H 7-9

Date: 5-6/86 Source(s)*: EQD, ASR, J. Rieger

Recon Code: H VIII

: _____

Thos. Map Coord: 35: C 4

: _____

Lambert Coord: 282-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Future Urban area

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>H 4</u>	<u>309-010-26</u>	<u>5.44</u>	<u>Jon M. Miller Tr., Sylvia Miller et al.</u>
<u>H 8</u>	<u>same</u>	_____	<u>46 Alvarado Pl, Chula Vista, CA 92010</u>
<u>H 7</u>	<u>309-010-02</u>	<u>19.93</u>	<u>Martin L. Gleich & Enid P. Gleich,</u>
	_____	_____	<u>9160 Gramercy Dr., San Diego, CA 92123</u>
<u>H 9</u>	<u>309-010-28</u>	<u>6.90</u>	<u>Stephen G. Fletcher, Tr., PO Box 1212,</u>
	_____	_____	<u>Rancho Santa Fe, CA 92067</u>
	<u>306-051-26</u>	<u>32.50</u>	<u>Fernando & Janice Zamudio, 9979 LaJolla</u>
	_____	_____	<u>Vista Dr., La Jolla, CA 92037</u>

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VERNAL POOL PRESERVATION STATUS

City Code: Hb, Hd

Pool Series Location: PENASQUITOS NORTH

F & G Code: H 5, 6, 10

Data by: Ellen T. Bauder

: H 13-15
: H 18-21, 23

Date: 5-6/86 Source(s)*: EQD, ASR, J. Rieger

Recon Code: H IX, X

: _____

Thos. Map Coord: 35C/D 4

: _____

Lambert Coord: 282-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: _____

Project proposed: _____ If so, EQD+# _____

Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: This land was purchased by Caltrans as mitigation for
loss of pools due to construction of I-15 and SR 52.

Applicable community plan: Future Urban area

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>All</u>	: _____	: _____	: <u>Caltrans</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Hd

Pool Series Location: PENASQUITOS NORTH F & G Code: H 11& 12

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, T. Huffman Recon Code: H VI

: C. Patterson, R. Sawyer Thos. Map Coord: 35: D5

: Lambert Coord: 282-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 84-0330
Pool # in ()'s : _____

Project name: Park Village PRD : _____

Tent. Map #: 84-0330 Final EIR date: _____

Mitigation fees req. am't : \$24,000 Am't collected: _____

: Off site mitigation includes donation of B 6 pool to the City of SD.

On-site mitigation: Preserve part of H 13, 100' setback from Caltrans preserve.

Applicable community plan: Penasquitos East

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: He

Pool Series Location: PENASQUITOS NORTH

F & G Code: H 17

Data by: Ellen T. Bauder

: H 36⁺

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: H XII, XIII

: _____

Thos. Map Coord: 35:85-6

: _____

Lambert Coord: 274-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# : _____
Pool # in ()'s : _____

Project name: _____ : _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Future Urban area

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: <u>H 17</u>	: <u>308-030-05</u>	: <u>63.35</u>	: <u>Jerome Shaw et al., 7245 Rue de Roark,</u>
: _____	: _____	: _____	: <u>La Jolla, CA 92037</u>
: <u>H 36⁺</u>	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Hd

Pool Series Location: PENASQUITOS NORTH

F & G Code: H 22

Prepared by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: H V

Thos. Map Coord: 35: D 4

Lambert Coord: 282-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: ? C. of Eng. 404 permit required: ?

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: South portion- If so, EQD+# : 84-0330
see H 11-12 Pool # in ()'s

Project name: Park Village PRD

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: South portion see H 11-12.

Applicable community plan: Penasquitos East & Future Urban

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>H 22 N</u>	<u>306-042-04</u>	<u>40.00</u>	<u>Dorothy M. Rhodes, John W. Grus</u>
			<u>4505 Point Loma Ave., San Diego,</u>
			<u>CA 92107</u>

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: PENASQUITOS NORTH F & G Code: H 24-26

Data by: Ellen T. Bauder :

Date: 5-7/86 Source(s)*: EQD, ASR Recon. Code: H IV

: _____ Thos. Map Coord: 35: E 4

: _____ Lambert Coord: 282-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : _____
Pool # in ()'s : _____

Project name: Rhodes Penasquitos : _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Future Urbanizing Zone

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>H 24-6</u>	: <u>306-042-04</u>	: <u>40.00</u>	: <u>Dorothy M. Rhodes, John W. Grus, 4505</u>
:	:	:	: <u>Point Loma Avenue, San Diego, CA 92107</u>
:	:	:	:
:	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: Hf

Pool Series Location: PENASQUITOS NORTH F & G Code: H 27

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: H II

: _____ Thos. Map Coord: 35: E 4

: _____ Lambert Coord: 282-1725

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 31-0219
Pool # in ()'s

Project name: Park Rim Estates

Tent. Map #: 02-0210 Final EIR date: 11/27/81

Mitigation fees req. am't : \$ 19,065 Am't collected: \$ 19,065

On-site mitigation: _____

Applicable community plan: Penasquitos East

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: PENASQUITOS NORTH

F & G Code: H 28

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: _____

: _____

Thos. Map Coord: 35:E 3

: _____

Lambert Coord: 282-1725

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 80-0004

Pool # in ()'s _____

Project name: Penasquitos Park Townhomes

Tent. Map #: _____

Final EIR date: 2/18/82

Mitigation fees req. am't : none Am't collected: _____

On-site mitigation: _____

Applicable community plan: Penasquitos East

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>H 28</u>	: _____	: _____	: _____
:	: _____	: _____	: _____
:	: _____	: _____	: _____
:	: _____	: _____	: _____
:	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: PENASQUITOS NORTH

F & G Code: H 29 & 34

Data by: Ellen T. Bauder

: _____

Date: 5-6/86 Source(s)*: EQD, C. Patterson

Recon Code: H I & II

: _____

Thos. Map Coord: 35:F 4

: _____

Lambert Coord: 282-1725

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 79-0762 (H 29) units 6&7
 Pool # in ()'s : _____

: 79-0724 (H34) unit 5

Project name: Penasquitos Park View Est.

: _____

Tent. Map #: 82-0424.1 (H 29)

Final EIR date: 7/7/80

: 82.0423.1 (H34)

: _____

Mitigation fees req. am't : \$30,000 Am't collected: \$30,000

: \$20,000 (H 29), \$10,000 (H34)

On-site mitigation: _____

Applicable community plan: Penasquitos East

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: PENASQUITOS NORTH

F & G Code: H 30

Data by: Ellen T. Bauder

: _____

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: H III

: _____

Thos. Map Coord: 35: E 4

: _____

Lambert Coord: 282-1725

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# : _____
Pool # in ()'s : _____

Project name: _____ : _____
: _____

Tent. Map #: _____ Final EIR date: _____

: _____ : _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: Penasquitos East, Future Urban

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>H 30</u>	<u>306-042-02</u>	<u>39.83</u>	<u>Dorothy M. Rhodes, John W. Grus</u>
:	:	:	<u>4505 Point Loma Ave., San Diego CA 92107</u>
:	:	:	_____
:	:	:	_____
:	:	:	_____
:	:	:	_____

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VERNAL POOL PRESERVATION STATUS

City Code: H 35

Pool Series Location: PENASQUITOS NORTH

F & G Code: H 35

Data by: Ellen T. Bauder

:

Date: 5-6/86 Source(s)*: EQD, T. Huffman

Recon Code: H III

:

Thos. Map Coord: 35: E 3

:

Lambert Coord: 282-1725

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 80-0329 (BMV)

Pool # in ()'s : _____

Project name: Black Mountain Vistas

: Carmel Rancho

: 80-0327

Tent. Map #: _____

Final EIR date: 6/19/80

: Carmel Rancho 8031 (expired 12/16/83)

Mitigation fees req. am't : \$ 8,720 (BMV) Am't collected: \$ 8,720

On-site mitigation: _____

Applicable community plan: Penasquitos East

Special cond., overlay: Carmel Rancho in Future Urbanizing Zone.

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>H 35</u>	: <u>306-041-07</u>	: _____	: _____
:	: _____	: _____	: _____
: _____	: _____	: _____	: _____
:	: _____	: _____	: _____
: _____	: _____	: _____	: _____
:	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: P II

Pool Series Location: MIRAMAR INDUSTRIAL F & G Code: I 1

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR, T. Huffman Recon Code: P II

: Thos. Map Coord: 39: D 4

: Lambert Coord: 258-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: 80-F-73

Project proposed: X If so, EQD+# : 78-1237

Pool # in ()'s : _____

: 80-0431P

Project name: Miramar Point Indus. Park

Tent. Map #: 01-188 Final EIR date: 7/23/81

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: Preserve of 8 acres.

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>I 1</u>	<u>341-060-90</u>	<u>8.70</u>	<u>H.G. Fenton Materials Company</u>
			<u>PO Box 64, San Diego, CA 92112</u>

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VERNAL POOL PRESERVATION STATUS

City Code: 1 1

Pool Series Location: MIRAMAR INDUSTRIAL

F & G Code: I 2-5

Data by: Ellen T. Bauder

: _____

Date: 5-6/86 Source(s)*: EQD, EN, T. Huffman

Recon Code: 1 1

: _____

Thos. Map Coord: 39:05-6

: _____

Lambert Coord: 258-1713

Subject to city plan: prior to If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 78-1015

Pool # in ()'s : _____

Project name: Santa Fe Industrial Park

Tent. Map #: 78-392 Final EIR date: _____

: Project approved 9/79 : _____

Mitigation fees req. am't : _____ Am't collected: \$32,500

: _____

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: i II

Pool Series Location: MIRAMAR INDUSTRIAL F & G Code: I 6A⁺

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR econ Code: i II

: Thos. Map Coord: 39: B 6

: Lambert Coord: 258-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X f yes, #: 82-F-108

Project proposed: X If so, EQD+# : 74-0409P

Pool # in ()'s : 81-1220

Project name: Midway Drive-In Theatre Corp. : 83-0892

Tent. Map #: _____ Final EIR date: _____

: PID approved 10/18/85 :

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: Preserve 1.25 acres on site.

Applicable community plan: University City

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>I 6A⁺</u>	: <u>343-252-13</u>	: <u>13.20</u>	: <u>Midway Drive-In Theatre Corp.</u>
:	:	:	: <u>3910 Chapman St., San Diego, CA 92110</u>
:	:	:	:
:	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: i II

Pool Series Location: MIRAMAR INDUSTRIAL

F & G Code: I 6B⁺

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: i II

Thos. Map Coord: 39: B 6

Lambert Coord: 258-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: 80-F-71

Project proposed: X If so, EQD+# : 80-0239P

Pool # in ()'s : _____

: 84-0466

Project name: Ford Motor Miramar

Tent. Map #: 82-0357

Final EIR date: 10/5/82

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: Preserve 0.56 acres on site.

Applicable community plan: University City

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>I 6B⁺</u>	: <u>343-252-12</u>	: <u>5.0</u>	: <u>Ford Leasing Development Co.</u>
:	:	:	: <u>PO Box 43336, Detroit, MI 48243</u>
:	:	:	:
:	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: i II

Pool Series Location: MIRAMAR INDUSTRIAL

F & G Code: I 6C⁺

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR, Recon Code: i II

: C.R. Scheidlinger Thos. Map Coord: 39: B 6

: Lambert Coord: 258-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: 80-F-90

Project proposed: X If so, EQD+# : 78-0516

Pool # in ()'s : _____

: 82-0725

Project name: Eastgate Miramar

Tent. Map #: 76-8436

Final EIR date: 3/21/79

Mitigation fees req. am't : \$12,000 Am't collected: _____

: 5/12/80- grading permit violation, Per consent decree paid \$20,000 for bio-logical study.

On-site mitigation: _____

Applicable community plan: University City

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>I 6C⁺</u>	: <u>343-260-9</u>	: <u>1.99</u>	: <u>Eastgate Miramar Associates</u>
:	:	:	: <u>6920 Miramar Rd., San Diego, CA 92121</u>
:	:	:	:
:	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: i III

Pool Series Location: MIRAMAR INDUSTRIAL F & G Code: I 7

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, M. Severance Recon Code: i III

: _____ Thos. Map Coord: 45: A 1

: _____ Lambert Coord: 258-1701

Subject to city plan: _____ If not, jurisdiction: U S Navy

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: _____

Project proposed: ? If so, EQD+# : _____
Pool # in ()'s : _____

Project name: _____ : _____

Tent. Map #: _____ Final EIR date: _____

: _____ : _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner: _____

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: <u>U S Navy</u>
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: MIRAMAR INDUSTRIAL

F & G Code: I 8

Data by: Ellen T. Bauder

: _____

Date: 5-6/86 Source(s)*: EQD

Recon Code: _____

: _____

Thos. Map Coord: 39 D:5

: _____

Lambert Coord: 258:1713

Subject to city plan: prior If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 78-0216

Pool # in ()'s : _____

Project name: Kendall-Miramar Business Pk

Tent. Map #: 7855

Final EIR date: 6/20/78

: _____

Mitigation fees req. am't : _____ Am't collected: _____

: Agreed in writing to pay unspecified amount. No record of any payment.

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: i 9

Pool Series Location: MIRAMAR INDUSTRIAL

F & G Code: I 9

Data by: Ellen T. Bauder

:

Date: 5-6/86 Source(s)*: EQD

Recon Code: _____

:

Thos. Map Coord: 44: E 1

:

Lambert Coord: 258:1701

Subject to city plan: prior If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 78-1123

Pool # in ()'s : _____

: 82-0332

Project name: Plaza at La Jolla Village

: 84-0772

Tent. Map #: 82-0332, 84-0772

Final EIR date: _____

: PID approved 1/7/85

:

Mitigation fees req. am't : _____ Am't collected: _____

:

On-site mitigation: _____

Applicable community plan: University City

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: i 10

Pool Series Location: MIRAMAR INDUSTRIAL F & G Code: I 10

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: _____

: _____ Thos. Map Coord: 39:C 6

: _____ Lambert Coord: 258-1713

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# : _____
Pool # in (.)'s : _____

Project name: _____ : _____

Tent. Map #: _____ Final EIR date: _____

: _____ : _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>I 10</u>	<u>343-031-11</u>	<u>18.62</u>	<u>Gordon T(Tr) & Albert A. Jr(Tr) Frost</u>
:	:	:	<u>PO Box 15, San Diego, CA 92112</u>
:	:	:	_____
:	:	:	_____
:	:	:	_____
:	:	:	_____

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VERNAL POOL PRESERVATION STATUS

City Code: i IV

Pool Series Location: MIRAMAR INDUSTRIAL

F & G Code: I 11⁺

Data by: Ellen T. Bauder

Date: 6-7/86 Source(s)*: EQD, ASR

Recon Code: i IV

: _____ Thos. Map Coord: 39: A 6

: _____ Lambert Coord: 258-1701

Subject to city plan: X If not, jurisdiction: _____

CEQA only: x C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: x If so, EQD+# : 80-1017
Pool # in ()'s : _____

Project name: Eastgate Bend II

Tent. Map #: _____

Final EIR date: 1/12/81

Mitigation fees req. am't : \$1,000 Am't collected: \$2,000

:EQD # for additional \$1,000 unknown, _____

On-site mitigation: _____

Applicable community plan: University

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: i VI?

Pool Series Location: MIRAMAR INDUSTRIAL

F & G Code: I 12⁺

Data by: Ellen T. Bauder

Date: 7/86 Source(s)*: EQD, ASR Recon Code: i VI?

Thos. Map Coord: 39: A 6

Lambert Coord: 258-1701

Subject to city plan: X If not, jurisdiction: _____

CEQA only: x C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: University

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>I 12⁺</u>	<u>343-122-09</u>	<u>11.93</u>	<u>City of San Diego</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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VERNAL POOL PRESERVATION STATUS

City Code: i V

Pool Series Location: MIRAMAR INDUSTRIAL F & G Code: _____

Data by: Ellen T. Bauder : I 13⁺

Date: 7/86 Source(s)*: EQD, ASR Recon Code: i V

: _____ Thos. Map Coord: 38:E 6

: _____ Lambert Coord: 258:1701

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 81-1231

Pool # in ()'s : _____

: 86-0253

Project name: Eastgate Technology Park

: _____

Tent. Map #: _____ Final EIR date: 8/16/82

: _____

Mitigation fees req. am't : \$14,000 Am't collected: \$14,000

: _____

On-site mitigation: _____

Applicable community plan: Sorrento Valley & University

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: J 1

Pool Series Location: OTAY MESA

F & G Code: J 1

Data by: Ellen T. Bauder

:

Date: 5-6/86 Source(s)*: EQD, ASR, D. Collins

Recon Code: _____

:

Thos. Map Coord: 72: D 5

:

Lambert Coord: 146-1761

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 84-0877
Pool # in ()'s _____

Project name: California Terraces

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: Proposed Precise Plan area

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 1</u>	: <u>645-040-31</u>	: <u>116.99</u>	: <u>Pardee Construction Co. (Corp)</u>
:	:	:	: <u>c/o Raymond Sandler, 1801 Ave. of the</u>
:	:	:	: <u>Stars, Gateway West, Los Angeles CA</u>
:	:	:	: <u>90067</u>
: <u>J 1</u>	: <u>645-040-37</u>	: <u>62.50</u>	: <u>Pardee Construction Co. (Corp).</u>
:	:	:	: <u>10639 Santa Monica Blvd., Los Angeles</u>

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VERNAL POOL PRESERVATION STATUS

City Code: J 2

Pool Series Location: OTAY MESA

F & G Code: J 2N⁺

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR, D. Collins Recon Code: _____

: _____ Thos. Map Coord: 72: E 5

: _____ Lambert Coord: 146-1761

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 84-0877
Pool # in ()'s : _____

Project name: California Terraces

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: Proposed Precise Plan area

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: <u>645-050-27 (?)</u>	: <u>18.02</u>	: <u>Pardee Construction Co., 10639 Santa</u>
	: _____	: _____	: <u>Monica Blvd., Los Angeles, CA 90025</u>
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: J 2

Pool Series Location: OTAY MESA

F & G Code: J 2W⁺

Data by: Ellen T. Bauder

:

Date: 5-6/86 Source(s)*: EQD, ASR, D. Collins

Recon Code: _____

:

Thos. Map Coord: 72: E 5

:

Lambert Coord: 146-1761

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# 84-0877

Pool # in ()'s _____

Project name: California Terraces

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: Proposed Precise Plan area

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: <u>645-040-31</u>	: <u>116.99</u>	: <u>Pardee Construction Co., c/o Raymond</u>
	: _____	: _____	: <u>Stars, Los Angeles, CA 90067</u>
: _____	: <u>645-050-21</u>	: <u>3.30</u>	: <u>Jack Ostrow, c/o H.J. Smith, PO Box 164</u>
	: _____	: _____	: <u>San Marcos, CA 92069</u>
: _____	: <u>645-050-17</u>	: <u>20.00</u>	: <u>Pardee Construction Co.</u>
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: J 2

Pool Series Location: OTAY MESA F & G Code: J 2S⁺

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR, D.Collins Recon Code: _____

: _____ Thos. Map Coord: 72: E 5

: _____ Lambert Coord: 146-1761

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ f yes, #: _____

Project proposed: X If so, EQD+# : 84-0877

Pool # in ()'s : _____

Project name: California Terraces : _____

Tent. Map #: _____ Final EIR date: _____

: _____ : _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: Proposed Precise Plan area

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 2S⁺</u>	: <u>645-050-27</u>	: <u>18.02</u>	: <u>Pardee Construction Co., 10639 Santa</u>
	: <u>645-050-15</u>	: <u>6.00</u>	: <u>Monica Blvd., Los Angeles, CA 90025</u>
:	: <u>645-050-17</u>	: <u>20.00</u>	: <u>Pardee Construction Co.</u>
	: <u>645-050-18</u>	: <u>1.35</u>	: <u>R.&O. Thayer, 19767 Jamacha Blvd., Spring</u>
:	: <u>645-050-16, 20</u>	: <u>6.00</u>	: <u>Jack Ostrow, c/o H.J. Smith, P.O. Box</u>
	: <u>2.19</u>		: <u>164, San Marcos, CA 92069</u>
	: <u>645-050-19</u>	: <u>0.89</u>	: <u>G.&I. Meese, 6225 Viewpoint Dr., San Diego</u>
			: <u>92139</u>

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: OTAY MESA

F & G Code: J 3⁺

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: _____

Thos. Map Coord: 72: D 6

Lambert Coord: 146-1761

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+* : _____
Pool # in ()'s : _____

Project name: Santee Investments

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: Proposed Precise Plan area

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 3⁺</u>	: <u>645-060-04</u>	: <u>59.21</u>	: <u>Santee Investments, Inc.,</u>
:	:	:	: <u>4277 Taylor St., San Diego, CA 92110</u>
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: Jd

Pool Series Location: OTAY MESA

F & G Code: J 4

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: _____

: _____ Thos. Map Coord: 72:E 4

: _____ Lambert Coord: 146-1761

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# _____
Pool # in ()'s _____

Project name: Robinhood Ridge

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: Proposed Precise Plan area

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 4</u>	: <u>645-050-05</u>	: <u>10</u>	: <u>Robinhood Associates II, 3648 Main St.,</u>
	: <u>645-050-06</u>	: <u>10</u>	: <u>Chula Vista, CA 92011</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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- + Planning or appropriate department for jurisdictions other than City of SD

VERNAL POOL PRESERVATION STATUS

City Code: Jd

Pool Series Location: OTAY MESA

F & G Code: J 5

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: _____

Thos. Map Coord: 72: D 4

Lambert Coord: 146-1761

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# _____
Pool # in ()'s _____

Project name: Robinhood Ridge

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: Proposed Precise Plan area

Landowner:

Pool #	Parcel #	Acres	Owners
<u>J 5</u>	<u>645-051-01</u>	<u>123.76</u>	<u>Robinhood Homes, Inc., 3648 Main St.,</u>
			<u>Chula Vista, CA 92011</u>

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VERNAL POOL PRESERVATION STATUS

City Code: Jd

Pool Series Location: OTAY MESA

F & G Code: J 7

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: _____

Thos. Map Coord: 72:E 4

Lambert Coord: 146-1761

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# _____
Pool # in ()'s _____

Project name: Robinhood Ridge

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: Proposed Precise Plan area

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: <u>(?)</u>	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: J6

Pool Series Location: OTAY MESA

F & G Code: J 11 E&W⁺

Data by: Ellen T. Bauder

: J 12

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: _____

: _____

Thos. Map Coord: 74: D 5

: _____

Lambert Coord: 138-1761

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# _____
Pool # in ()'s _____

Project name: Spring Canyon

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: Proposed Precise Plan area

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 12</u>	: <u>667-040-10</u>	: <u>290</u>	: <u>Maynard R. Bissonnette, Tr., 170</u>
	: _____	: _____	: <u>Laurel St., San Diego, CA 92101</u>
: <u>J 11</u>	: <u>?</u>	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: J 13

Pool Series Location: OTAY MESA

F & G Code: J 13N⁺

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s) #: EQD Recon Code: _____

: _____ Thos. Map Coord: 74: D 4

: _____ Lambert Coord: 138-1761

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 13N⁺</u>	: <u>(?)</u>	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: J 13

Pool Series Location: OTAY MESA

F & G Code: J 13S⁺

Data by: Ellen T. Bauder

:

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: _____

: _____

Thos. Map Coord: 74: D 4

: _____

Lambert Coord: 138-1761

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 13S⁺</u>	: <u>667-010-06</u>	: <u>61.63</u>	: <u>Virginia C. Martinez, 527 Orange</u>
	: _____	: _____	: <u>Chula Vista, CA 92011</u>
: <u>J 13S⁺</u>	: <u>667-010-14</u>	: <u>20.39</u>	: <u>Gerald Handler, 3303 Ruffin Rd.,</u>
	: _____	: _____	: <u>San Diego, CA 92123</u>
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: J 14

Pool Series Location: OTAY MESA F & G Code: J 14

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: _____

: _____ Thos. Map Coord: 72: E 6

: _____ Lambert Coord: 138-1761

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# : _____
Pool # in ()'s : _____

Project name: _____ : _____

Tent. Map #: _____ Final EIR date: _____

: _____ : _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 14</u>	: <u>645-090-14</u>	: <u>9.70</u>	: <u>Martin N. Karlund, 8040 Birmingham Dr.,</u>
:	:	:	: <u>San Diego, CA 92123</u>
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: OTAY MESA

F & G Code: J 16-18

Data by: Ellen T. Bauder

Date: 5-7/86 Source(s)*: EQD, ASR

Recon Code: _____

: _____

Thos. Map Coord: 74:D 5

: _____

Lambert Coord: 138-1761

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 16</u>	: <u>667-040-03</u>	: <u>18.89</u>	: <u>Otay 19 Assoc., 507 W. Madison Ave.,</u>
:	:	:	: <u>El Cajon, CA 92020</u>
: <u>J 17-18</u>	: <u>667-040-02</u>	: <u>40.00</u>	: <u>Chas J. Biddle, et al., 7789 Whitefield</u>
:	:	:	: <u>Place, La Jolla, CA 92037</u>
:	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: J 19

Pool Series Location: OTAY MESA

F & G Codes: J 19

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: _____

: _____ Thos. Map Coord: 74N:B5

: _____ Lambert Coord: 138-1773

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>J 19</u>	<u>667-060-02</u>	<u>67.73</u>	<u>Virginia Martinez, 527 Orange</u>
	_____	_____	<u>Chula Vista, CA 92011</u>
<u>J 19</u>	<u>667-060-11</u>	<u>24.15</u>	<u>Ace Properties, PO Box 2594,</u>
	_____	_____	<u>San Ysidro, CA 92073</u>
_____	_____	_____	_____
_____	_____	_____	_____

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VERNAL POOL PRESERVATION STATUS

City Code: J 20

Pool Series Location: OTAY MESA

F & G Code: J 20

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: _____

: _____ Thos. Map Coord: 74N:B5

: _____ Lambert Coord: 138-1773

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# : _____
Pool # in ()'s : _____

Project name: _____ : _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 20</u>	: <u>667-060-09</u>	: <u>24.99</u>	: <u>Curtis J. Corn, 4429 Loma Paseo, Bonita</u>
:	:	:	: <u>CA 92002</u>
:	:	:	:
:	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: Je

Pool Series Location: OTAY MESA F & G Code: J 21

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: _____

: _____ Thos. Map Coord: 74N: 85

: _____ Lambert Coord: 138-1773

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# : _____
Pool # in ()'s : _____

Project name: _____ : _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 21</u>	: <u>667-060-10</u>	: <u>48.00</u>	: <u>Border Ranch, Inc., 6281 Siempre Viva</u>
:	:	:	: <u>Road, San Diego, CA 92173</u>
: <u>J 21</u>	: <u>667-060-15</u>	: <u>10.00</u>	: <u>Siempre Viva Asso., 407 Madison Ave.,</u>
:	:	:	: <u>El Cajon, CA 92020</u>
: _____	: _____	: _____	: _____
:	:	:	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: J 22

Pool Series Location: OTAY MESA

F & G Code: J 22

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: DPLU, ASR

Recon Code: _____

Thos. Map Coord: 72N: E5

Lambert Coord: 146-1785

Subject to city plan: _____ If not, jurisdiction: County of San Diego

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# _____
Pool # in ()'s _____

Project name: SR 125

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa Sub Regional Plan

Special cond., overlay: Agricultural Preserve

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 22</u>	: <u>464-080-05</u>	: <u>40.00</u>	: <u>Paul Ecke Sr. Tr., PO Box 607,</u>
			: <u>Encinitas, CA 92024</u>
: <u>J 22</u>	: <u>646-080-04</u>	: <u>79.09</u>	: <u>same</u>

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VERNAL POOL PRESERVATION STATUS

City Code: Ja

Pool Series Location: OTAY MESA

F & G Code: J 23&24

Data by: Ellen T. Bauder

: J 25

Date: 5-6/86 Source(s)*: DPLU, ASR

Recon Code: _____

: _____

Thos. Map Coord: 72N:D/E 3

: _____

Lambert Coord: 146-1785

Subject to city plan: _____ If not, jurisdiction: County of San Diego

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Sub-Regional Plan

Special cond., overlay: Vernal Pool Area Regulations-portions of area

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 23</u>	: <u>646-030-02</u>	: <u>40.00</u>	: <u>United Enterprises, 1007 Fifth Ave.,</u>
	: <u>646-030-17</u>	: <u>134.22</u>	: <u>San Diego, CA 92101</u>
: <u>J 24</u>	: <u>646-030-17</u>	: <u>134.22</u>	: <u>same</u>
	: <u>646-030-18</u>	: <u>21.69</u>	: <u>same</u>
: <u>J 25</u>	: <u>646-040-11</u>	: <u>37.01</u>	: <u>same</u>
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: J 26

Pool Series Location: OTAY MESA

F & G Code: J 26

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: DPLU, ASR, D. Barlow Recon Code: _____

: T. Oberbauer Thos. Map Coord: 72N:F3

: _____ Lambert Coord: 154-1785

Subject to city plan: _____ If not, jurisdiction: County of San Diego

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# _____
Pool # in ()'s _____

Project name: E. Otay Mesa Detention Fac.
: Parcels 647-130-08 and 648-010-22

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Sub-Regional Plan

Special cond., overlay: Vernal Pool Area Regulations- a portion of the area

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 26</u>	: <u>644-100-05</u>	: <u>23.00</u>	: <u>Dorothy Kenyon, Dara D. Nauman, Frances A. O'Brien, c/o Ca. First Bank, Trust Real Estate, PO Box 109, San Diego, CA 92112</u>
: <u>J 26</u>	: <u>647-130-07 (?)</u>	: <u>41.32</u>	: <u>City of San Diego</u>
	: <u>646-040-19 (?)</u>	: <u>400.96</u>	:
	: <u>648-010-23 (?)</u>	: <u>17.61</u>	:
: <u>J 26</u>	: <u>647-130-08</u>	: <u>120.84</u>	: <u>275 Corp., 4970 Kearny Mesa Rd., San Diego CA, 92111</u>
	: <u>646-040-13</u>	: <u>9.66</u>	: <u>Margaret R. Tobiasson et al., c/o Dorothy Robinson, 1139 N. Shattuck, Orange, CA 92667</u>

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VERNAL POOL PRESERVATION STATUS

City Code: Je

Pool Series Location: OTAY MESA F & G Code: J 27

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: _____

: _____ Thos. Map Coord: 72N:B/C 6

: _____ Lambert Coord: 138-1773

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 86-0526
Pool # in ()'s : _____

Project name: Empire Center : _____

Tent. Map #: _____ Final EIR date: _____

: _____

Mitigation fees req. am't : \$ 39,560 Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: Commercial Sub-District

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 27</u>	: <u>646-111-01</u>	: <u>155.15</u>	: <u>Robert Egger, Tr., 1701 Saturn Blvd.,</u>
	: _____	: _____	: <u>San Diego, CA 92154</u>
: <u>J 27</u>	: <u>646-111-10</u>	: <u>19.86</u>	: <u>Salvatore Tavalocci, Tr (DCSD),</u>
	: <u>646-111-11</u>	: <u>19.87</u>	: <u>PO Box 340, Bonita, CA 92002</u>
: <u>J 27</u>	: <u>646-111-12</u>	: <u>19.83</u>	: <u>same</u>
	: <u>646-111-13</u>	: <u>18.90</u>	: <u>same</u>

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VERNAL POOL PRESERVATION STATUS

City Code: Je

Pool Series Location: OTAY MESA

F & G Code: J 28

Data by: Ellen T. Bauder

: J 28 W⁺

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: _____

: _____

Thos. Map Coord: 74N:B/C 4

: _____

Lambert Coord: 138-1773

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 28 W⁺</u>	: <u>646-110-26</u>	: <u>13.13</u>	: <u>H. Lenore Webb, 104 Parrot Lane,</u> : <u>Fountain Valley, 92708</u>
: <u>J 28</u>	: <u>646-110-08</u>	: <u>17.04</u>	: <u>John C. & Marla K. Kuta et al.,</u> : <u>272 Church Ave., Chula Vista, CA 92010</u>
	: <u>646-110-13 (?)</u>	: <u>40.00</u>	: <u>K. Yamamoto et al., 1254 Fallbrook Ct.,</u> : <u>Bonita, CA 92002</u>
: <u>J 28</u>	: <u>646-110-27</u>	: <u>13.25</u>	: <u>John M. Urquhart, Tr., PO Box 114,</u> : <u>Rancho Santa Fe, CA 92067</u>
	: <u>646-110-28</u>	: <u>13.13</u>	: <u>Sidney Morris et al., 862 Cedar, Chula</u> : <u>Vista, CA 92011</u>

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VERNAL POOL PRESERVATION STATUS

City Code: J 29

Pool Series Location: OTAY MESA

F & G Code: J 29

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: _____

: _____ Thos. Map Coord: 72: C 4

: _____ Lambert Coord: 146-1773

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 29</u>	: <u>646-060-05</u>	: <u>159.16</u>	: <u>USA</u>
	: <u>646-020-04</u>	: <u>149.66</u>	: <u>United Enterprises, 1007 Fifth Avenue,</u>
:	:	:	: <u>San Diego, CA 92101</u>
:	:	:	:
:	:	:	:
:	:	:	:

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 + Planning or appropriate department for jurisdictions other than City of SD

VERNAL POOL PRESERVATION STATUS

City Code: J 30

Pool Series Location: OTAY MESA

F & G Code: J 30

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: _____

Thos. Map Coord: 72: C 4

Lambert Coord: 146-1773

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>J 30</u>	: <u>646-030-03</u>	: <u>100</u>	: <u>United Enterprises</u>
:	:	:	:
: _____	: <u>646-020-02</u>	: <u>10.74</u>	: <u>United Enterprises, 1007 Fifth Ave.,</u>
:	:	:	: <u>San Diego, CA 92101</u>
: _____	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: K 2

Pool Series Location: OTAY RIVER

F & G Code: K 2

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: DPLU, ASR Recon Code: _____

: _____ Thos. Map Coord: 72: F 3

: _____ Lambert Coord: 154-1773

Subject to city plan: _____ If not, jurisdiction: County of San Diego

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : RP 79-09
Pool # in ()'s

Project name: Otay Ranch Pit Reclam. Plan

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

: While plan boundary includes K 2, mining operations are to the west.

On-site mitigation: _____

Applicable community plan: Otay Sub-Regional Plan

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>K 2</u>	: <u>646-010-01</u>	: _____	: <u>United Enterprises, 1007 Fifth Ave.,</u>
	: _____	: _____	: <u>San Diego, CA 92101</u>
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: K 3-5

Pool Series Location: OTAY RIVER

F & G Code: K 3-5

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: DPLU, ASR Recon Code: _____

: _____ Thos. Map Coord: 407:F 5

: _____ Lambert Coord: 162-1785

Subject to city plan: _____ If not, jurisdiction: County of San Diego

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Otay Sub-Regional Plan

Special cond., overlay: City of San Diego committed to protect a min. of 35 acres under Vernal Pool Preservation Program.

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>K 3-5</u>	: <u>647-080-01</u>	: <u>592.22</u>	: <u>City of San Diego</u>
	: <u>647-080-02</u>	: <u>32.60</u>	: <u>same</u>
: <u>K 5</u>	: <u>647-090-01</u>	: <u>40.00</u>	: <u>same</u>
	: <u>647-090-02 (?)</u>	: <u>400.00</u>	: <u>United Enterprises, 1007 Fifth Avenue, San Diego, CA 92101</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Kb

Pool Series Location: DTAY RIVER

F & G Code: K 6

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: DPLU, ASR Recon Code: _____

: _____ Thos. Map Coord: 407:F 5

: _____ Lambert Coord: _____

Subject to city plan: _____ If not, jurisdiction: County of San Diego

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# : _____
Pool # in ()'s : _____

Project name: _____ : _____

Tent. Map #: _____ Final EIR date: _____

: _____ : _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: Jamul-Dulzura Sub-Regional Plan

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>K 6</u>	: <u>647-020-08</u>	: _____	: <u>United Enterprises, 1007 Fifth Ave.,</u>
	: _____	: _____	: <u>San Diego, CA 92101</u>
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Kb

Pool Series Location: OTAY RIVER

F & G Code: K 7

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: DPLU, ASR

Recon Code: _____

: _____

Thos. Map Coord: 407:F 4

: _____

Lambert Coord: _____

Subject to city plan: _____ If not, jurisdiction: County of San Diego

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Jamul-Dulzura Sub-Regional Plan

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>K 7</u>	: <u>647-030-01</u>	: _____	: <u>United Enterprises, 1007 Fifth Ave.,</u>
	: _____	: _____	: <u>San Diego, CA 92101</u>
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: SAN MARCOS

F & G Code: L 1-6

Data by: Ellen T. Bauder

: _____

Date: 5-9/86 Source(s)*: ASR, J. Uribe

Recon Code: _____

: _____

Thos. Map Coord: 16: A 6

: _____

Lambert Coord: _____

Subject to city plan: _____ If not, jurisdiction: San Marcos

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# : _____

Pool # in ()'s : _____

Project name: _____ : _____

Tent. Map #: _____ Final EIR date: _____

: _____ : _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: Resource Conservation Area in General Plan

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>L 1-5</u>	: <u>219-222-04</u>	: <u>8.27</u>	: <u>David W. Upham, Robert L. Buffum, Trs.</u>
	: <u>219-222-01</u>	: <u>8.29</u>	: <u>Robert Buffum, 1107 E. Chapman Ave.,</u>
	: <u>219-222-02</u>	: <u>8.35</u>	: <u>Orange, CA 92666</u>
	: <u>219-222-03</u>	: <u>8.35</u>	: <u>same</u>
: <u>L 6</u>	: <u>219-153-04</u>	: <u>5.68</u>	: <u>Chester R. Upham, Jr. et al., 1107 E.</u>
	: _____	: _____	: <u>Chapman Ave., Orange, CA 92666</u>

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: SAN MARCOS

F & G Code: L 7-8

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: ASR

Recon Code: _____

: _____

Thos. Map Coord: 16: A 6

: _____

Lambert Coord: _____

Subject to city plan: _____ If not, jurisdiction: san Marcos

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: ? If so, EQD+# _____

Pool # in ()'s _____

Project name: _____

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>L 8</u>	: <u>219-210-08</u>	: <u>13.81</u>	: <u>Universal Boot Shops, 939 Fifth Avenue,</u>
	: _____	: _____	: <u>San Diego, CA 92101</u>
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: SAN MARCDS

F & G Code: L 9-10

Data by: Ellen T. Bauder

Date: 5-9/86 Source(s)*: ASR

Recon Code: _____

Thos. Map Coord: 16:6 A

Lambert Coord: _____

Subject to city plan: _____ If not, jurisdiction: San Marcos

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: ? If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>L 9-10?</u>	<u>:219-223-09</u>	<u>: 8.41</u>	<u>:John & Maria Mireiter et al., 645 Mc</u>
			<u>:Gavran Dr., Vista, CA 92083</u>
<u>L 10?</u>	<u>:219-223-10</u>	<u>: 6.27</u>	<u>:Adelheid Bauer et al., 645 McGavran Dr.</u>
			<u>:Vista, CA 92083</u>

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: SAN MARCOS

F & G Code: L 11-13

Data by: Ellen T. Bauder

: _____

Date: 5-9/86 Source(s)*: ASR

Recon Code: _____

: _____

Thos. Map Coord: 16: B 6

: _____

Lambert Coord: _____

Subject to city plan: _____ If not, jurisdiction: San Marcos

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: ? If so, EQD+# _____

Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

: _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>L 11-13</u>	: <u>219-330-27</u>	: <u>9.36</u>	: <u>K. W. Rundlett, L. E. Daniels,</u>
:	:	:	: <u>3352 Mary Lane, Escondido, CA 92025</u>
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: CHULA VISTA

F & G Code: M 1⁺

Data by: Ellen T. Bauder

: _____

Date: 5-6/86 Source(s)*: ASR, D. Reid

Recon Code: _____

: _____

Thos. Map Coord: 70: D 5

: _____

Lambert Coord: 162-1761

Subject to city plan: _____ If not, jurisdiction: Chula Vista

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# _____

Pool # in ()'s _____

Project name: El Rancho del Rey

: _____

Tent. Map #: _____

Final EIR date: _____

: _____

: _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>M 1⁺</u>	<u>640-090-05</u>	<u>9.50</u>	<u>Marquerite Monsees, 450 B. St., San</u>
	_____	_____	<u>Diego, CA 92101</u>
<u>M 1⁺</u>	<u>640-090-10</u>	<u>14.20</u>	<u>El Rancho del Rey Partnership, c/o</u>
	_____	_____	<u>McDonald Hecht & Solberg, 600 B St.,</u>
<u>M 1⁺</u>	<u>640-090-02</u>	<u>5.00</u>	<u>San Diego, CA 92101</u>
	_____	_____	_____

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VERNAL POOL PRESERVATION STATUS

City Code: M 2

Pool Series Location: CHULA VISTA

F & G Code: M 2

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: DPLU, ASR

Recon Code: _____

Thos. Map Coord: 72: D 2

Lambert Coord: 162-1761

Subject to city plan: _____ If not, jurisdiction: San Diego County

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>M 2</u>	<u>644-030-03</u>	<u>390.10</u>	<u>United Enterprises, 1007 Fifth Ave.,</u>
			<u>San Diego, CA 92101</u>

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VERNAL POOL PRESERVATION STATUS

City Code: M 3

Pool Series Location: CHULA VISTA

F & G Code: M 3

Data by: Ellen T. Bauder

:

Date: 5-6/86 Source(s)*: ASR, D. Reid

Recon Code: _____

:

Thos. Map Coord: 70: D 4

:

Lambert Coord: 170-1761

Subject to city plan: _____ If not, jurisdiction: Chula Vista

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# _____

Pool # in ()'s _____

Project name: El Rancho del Rey

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>M 3</u>	<u>640-060-08</u>	<u>83.42</u>	<u>El Rancho del Rey, c/o The Gersten Bros</u>
			<u>690 Otay Lakes Rd, Chula Vista, CA 92010</u>
<u>M 3</u>	<u>640-060-09</u>	<u>13.74</u>	<u>Otay Land Co., c/o The Gersten Bros.,</u>
			<u>690 Otay Lakes Rd, Chula Vista, CA 92010</u>

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VERNAL POOL PRESERVATION STATUS

City Code: M 4

Pool Series Location: CHULA VISTA

F & G Code: M 4

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: DPLU, ASR, M. Reed Recon Code: _____

: _____ Thos. Map Coord: 72: D 2

: _____ Lambert Coord: 154-1761

Subject to city plan: _____ If not, jurisdiction: County of San Diego

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : P 76-046
Pool # in ()'s : _____

Project name: Otay Mesa Landfill

Tent. Map #: _____ Final EIR date: 6/24/76

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigations: _____

Applicable community plan: ?

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>M 4</u>	<u>644-030-05</u>	<u>250.59</u>	<u>County of San Diego</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Mtgy Fld

Pool Series Location: MONTGOMERY FIELD

F & G Code: N 1-4

Data by: Ellen T. Bauder

: _____

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: N II

: _____

Thos. Map Coord: 53:E/F2

: _____

Lambert Coord: 234-1725

Subject to city plan: X If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Serra Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: <u>421-03-36</u>	: <u>145.65</u>	: <u>City of San Diego</u>
: _____	: <u>-43</u>	: <u>17.36</u>	: <u>same</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: Mtgy Fld

Pool Series Location: MONTGOMERY FIELD F & G Code: N 5-6

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: EQD, ASR Recon Code: N I

: _____ Thos. Map Coord: 53: E 2

: _____ Lambert Coord: 234-1725

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X (N 5) C. of Eng. 404 permit required: X (N 6)

U S F & W Sec. 7 Consultation: X (N 6) If yes, #: _____

Project proposed: X (N 5) If so, EQD+# : 74-6023C

Pool # in ()'s : _____

Project name: City of S.D. Indus. Park N : _____

Tent. Map #: _____ Final EIR date: Neg dec 9/30/74

Mitigation fees req. am't : none Am't collected: _____

On-site mitigation: _____

Applicable community plan: Serra Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>N 5</u>	<u>369-170-20</u>	<u>9.46</u>	<u>Madison Sq. Partnership, 4223 Ponderosa</u>
	_____	_____	<u>Ave., San Diego, CA 92123</u>
<u>N 5</u>	<u>369-170-55</u>	<u>46.03</u>	_____
	_____	_____	_____
<u>N 6</u>	<u>421-030-36 & 43</u>	<u>145.65</u>	<u>City of San Diego</u>
		<u>17.36</u>	
	<u>421-290-11</u>	<u>428.69</u>	<u>same</u>

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VERNAL POOL PRESERVATION STATUS

City Code: P I

Pool Series Location: CAMINO RUIZ

F & G Code: P 1-2

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: P I

Thos. Map Coord: 39: E 4

Lambert Coord: 266-1725

Subject to city plan: prior If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: 80-171

Project proposed: X If so, EQD+# : 74-7-031P
Pool # in ()'s : _____

Project name: Miralani Industrial Park

Tent. Map #: 78-323 Final EIR date: 3/12/79

Mitigation fees req. am't : \$4,000/ acre Am't collected: _____

: Graded illegally. Fine collected by Fish & Wildlife was \$75,000.

On-site mitigation: _____

Applicable community plan: Mira Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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 + Planning or appropriate department for jurisdictions other than City of SD

VERNAL POOL PRESERVATION STATUS

City Code: Q

Pool Series Location: GROSSMONT COLLEGE

F & G Code: Q 1

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: ASR, K. Lynch

Recon Code: Q

: _____

Thos. Map Coord: 55: 1 D

: _____

Lambert Coord: 234-1761

Subject to city plan: _____ If not, jurisdiction: Santee

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

: _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>Q</u>	: <u>386-070-01 (?)</u>	: <u>42.85</u>	: <u>House Estates, PO Box E, El Cajon,</u>
	: _____	: _____	: <u>CA 92022</u>
: <u>Q</u>	: <u>386-070-12</u>	: <u>62.96</u>	: <u>Martin L. & Enid P. Gleich, 9160</u>
	: _____	: _____	: <u>Gramercy Dr., San Diego, CA 92123</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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 + Planning or appropriate department for jurisdictions other than City of SD

VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: PROCTOR VALLEY

F & G Code: R

Data by: Ellen T. Bauder

Date: 5-7/86 Source(s)*: ASR, DPLU

Recon Code: _____

: _____

Thos. Map Coord: 67N:F 6

: _____

Lambert Coord: 178-1785

Subject to city plan: _____ If not, jurisdiction: San Diego County

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Jamul-Dulzura Sub-Regional Plan

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>R</u>	: <u>598-010-08</u>	: <u>157.29</u>	: <u>City of San Diego</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: S
 Pool Series Location: SWEETWATER LAKE F & G Code: S 1-3
 Data by: Ellen T. Bauder
 Date: 5-7/86 Source(s)*: ASR, DPLU Recon Code: _____
 : _____ Thos. Map Coord: 67: F 5
 : _____ Lambert Coord: 186-1761
 Subject to city plan: _____ If not, jurisdiction: San Diego County
 CEQA only: X C. of Eng. 404 permit required: _____
 U S F & W Sec. 7 Consultation: _____ If yes, #: _____
 Project proposed: X If so, EQD+# : ZAP 84-11 (S 1)
 Pool # in ()'s : _____
 Project name: Gen. Tel. minor use permit
 : _____
 Tent. Map #: _____ Final EIR date: _____
 : _____
 Mitigation fees req. am't : _____ Am't collected: _____
 : _____
 On-site mitigation: _____
 Applicable community plan: Sweetwater
 Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>S 1</u>	: <u>585-112-01</u>	: <u>16.83</u>	: <u>General Telephone Co of California</u>
	: <u>585-112-02</u>	: <u>9.60</u>	: <u>same</u>
: <u>S 1-3</u>	: <u>585-170-05</u>	: <u>40.67</u>	: <u>South Bay Irrigation District, PO Box</u>
	: <u>585-170-06</u>	: <u>34.40</u>	: <u>2328, Chula Vista, CA 92012</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: RAMONA

F & G Code: T 1-5

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: DPLU, ASR Recon Code: _____

: _____ Thos. Map Coord: 28P:B/C

: _____ Lambert Coord: _____

Subject to city plan: _____ If not, jurisdiction: County of San Diego

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# : _____
Pool # in ()'s : _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Investigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>T 1,2,4</u>	: <u>282-010-43</u>	: <u>282.56</u>	: <u>Orville A. & Lucy S. Cumming, Trs.</u>
:	:	:	: <u>28368 Highway 78, Ramona, CA 92065</u>
: <u>T 3& 5</u>	: <u>282-010-01</u>	: <u>160.00</u>	: <u>William J. Cagney, 6777 Hollywood Blvd.</u>
:	:	:	: <u>Los Angeles, CA 90028</u>
:	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: Landmark

Pool Series Location: LANDMARK

F & G Code: U 1-13

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: ASR, M. Severance,

Recon Code: UI-V, UVI

: J. Rieger

Thos. Map Coord: 45:D/E

: _____

Lambert Coord: 242-1725

Subject to city plan: _____ If not, jurisdiction: US Navy

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: 1-1-83F-10

Project proposed: X If so, EQD+# _____
Pool # in ()'s _____

Project name: SR 52

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

: Off site mitigation- land purchase n. and s. of Penasquitos Canyon

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: <u>US Navy</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: LANDMARK

F & G Code: U 14

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: ASR, M. Severance, Recon Code: U VII &

J. Rieder Thos. Map Coord: 45:D/E

Lambert Coord: 242-1725

Subject to city plan: _____ If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: 1-1-83F-10

Project proposed: X If so, EQD+# _____
Pool # in ()'s _____

Project name: SR 52

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

: See U 1-13.

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: <u>US Navy</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: U 13

Pool Series Location: LANDMARK

F & G Code: U 15

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: ASR, T. Huffman,

Recon Code: U VI

M. Severance, J. Nelson

Thos. Map Coord: 45: D 5

Lambert Coord: 242-1725

Subject to city plan: If not, jurisdiction:

CEQA only: C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: 1-1-83-F-29

Project proposed: X If so, EQD+#
Pool # in ()'s

Project name: Sander project

Tent. Map #: Final EIR date:

Mitigation fees req. am't : Am't collected:

On-site mitigation: On and off-site mitigation proposed.

Applicable community plan:

Special cond., overlay:

Landowner:

Pool #	Parcel #	Acres	Owners
<u>:U 15</u>	<u>:356-031-05</u>	<u>: 79.94</u>	<u>: US Navy</u>
<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>
<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>
<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>
<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: LANDMARK

F & G Code: U 18

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: ASR Recon Code: U XII

: _____ Thos. Map Coord: 45: E 6

: _____ Lambert Coord: 242-1725

Subject to city plan: _____ If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>U 18</u>	: <u>356-032-04</u>	: <u>0.81</u>	: <u>City of San Diego</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: V I & I

Pool Series Location: SIM J. HARRIS

F & G Code: V 1-4⁺

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: ASR, M. Severance

Recon Code: V I & I

: _____

Thos. Map Coord: 45:E/F3

: _____

Lambert Coord: 250-1725

Subject to city plan: _____ If not, jurisdiction: _____

CEQA only: _____ C. of Eng. 404 permit required: x

U S F & W Sec. 7 Consultation: x If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: <u>US Navy</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: W I-III

Pool Series Location: SOUTH MIRAMAR NAS

F & G Code: W 1-3

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: M. Severance

Recon Code: W I-III

Thos. Map Coord: 45: D 3

Lambert Coord: 250-1713

Subject to city plan: _____ If not, jurisdiction: US Navy

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: Fenced & designated Ecological Study Area

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
_____	_____	_____	<u>US Navy</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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VERNAL POOL PRESERVATION STATUS

City Code: X 1-3

Pool Series Location: WEST MIRAMAR NAS F & G Code: X 1-3

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: ASR Recon Code: X I

: _____ Thos. Map Coord: 45:B 1

: _____ Lambert Coord: 258-1713

Subject to city plan: _____ If not, jurisdiction: US Navy

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: _____

Project proposed: _____ If so, EQD+# : _____
Pool # in ()'s : _____

Project name: _____ : _____
: _____

Tent. Map #: _____ Final EIR date: _____

: _____ : _____

Mitigation fees req. am't : _____ Am't collected: _____

: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: <u>US Navy</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: X I

Pool Series Location: WEST MIRAMAR NAS F & G Code: X 4

Data by: Ellen T. Bauder :

Date: 5-6/86 Source(s)*: _____ Recon Code: X I

: _____ Thos. Map Coord: 45: B 1

: _____ Lambert Coord: 258-1713

Subject to city plan: eastern part If not, jurisdiction: US Navy (western part)

CEQA only: eastern part C. of Eng. 404 permit required: X (US Navy)

U S F & W Sec. 7 Consultation: X (US Navy) If yes, #: _____

Project proposed: X If so, EQD+# : 82-0272

Pool # in ()'s : 85-0815

Project name: Mir. Indust. Tract, Unit 9

Tent. Map #: 82-0272 (rezone), 85-0815 (PID) Final EIR date: 8/5/82

: _____ : 12/6/86 (PID)

Mitigation fees req. am't : \$3,200.00 Am't collected: \$3,200.00

On-site mitigation: _____

Applicable community plan: University City

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>X 4</u>	: <u>343-252-15</u>	: <u>8.63</u>	: <u>US Navy</u>
	: <u>343-040-27</u>	: <u>11.59</u>	: <u>US Navy</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: WEST MIRAMAR NAS

F & G Code: X 5+

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: X II

Thos. Map Coord: 44: F 2

Lambert Coord: 255-1706

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: University City

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
<u>X 5+</u>	<u>345-011-03</u>	<u>128.64</u>	<u>City of San Diego</u>
	<u>348-020-52</u>	<u>6.59</u>	<u>same</u>
<u>X 5+</u>	<u>348-020-62</u>	<u>3.85</u>	<u>VTC Partners, 11300 Sorrento Valley Rd.</u>
	_____	_____	<u>San Diego, CA 92121</u>
<u>X 5+</u>	<u>348-020-36</u>	_____	<u>Atchison, Topeka & Santa Fe RR</u>
	_____	_____	_____

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: WEST MIRAMAR NAS

F & G Code: X 6+

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD, ASR

Recon Code: _____

: _____

Thos. Map Coord: 44: E 2

: _____

Lambert Coord: 250-1701

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 85-0783

Pool # in ()'s : _____

Project name: Costa Verde

Tent. Map #: _____

Final EIR date: 3/30/86

: _____

: notice of determination

Mitigation fees req. am't : \$30,000 Am't collected: _____

On-site mitigation: _____

Applicable community plan: University City

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acrs	Owners
<u>X 6+</u>	<u>345-072-11</u>	_____	<u>Guaranty Service Corp., 14180 Dallas</u>
	<u>345-072-12</u>	_____	<u>Parkway, Dallas, TX 75240</u>
	<u>345-072-23</u>	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

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VERNAL POOL PRESERVATION STATUS

City Code: Z 1-8

Pool Series Location: WEST GATE MIRAMAR NAS

F & G Code: Z 1-8

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: M. Severance

Recon Code: Z I & II

: _____

Thos. Map Coord: 39:0/E 5-6

: _____

Lambert Coord: 258-1725

Subject to city plan: _____ If not, jurisdiction: US Navy

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>Z 1-8</u>	: _____	: _____	: <u>US Navy</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: EAST MIRAMAR NAS

F & G Code: AA 1-13

Data by: Ellen T. Bauder

: _____

Date: 5-6/86 Source(s)*: M. Severance, J. Rieger Recon Code: AA I-IX

: _____ Thos. Map Coord: 40,46:A/B

: _____ Lambert Coord: 242,250,258-1725 & 254-1737

Subject to city plan: _____ If not, jurisdiction: US Navy

CEQA only: _____ C. of Eng. 404 permit required: X

U S F & W Sec. 7 Consultation: X If yes, #: 1-1-83F-10 (SR 52)
: _____ (I-15)

Project proposed: X If so, EQD+# : _____
Pool # in ()'s : _____

Project name: I-15 (Bypass & extension)
: SR 52

Tent. Map #: _____ Final EIR date: 3/18/85 (SR 52)

: _____ : _____

Mitigation fees req. am't : _____ Am't collected: _____

: Off site mitigation- purchase of land n, and s, of Penasquitos Canyon, and n. of Santo Rd. in Tierrasanta.

On-site mitigation: _____

Applicable community plan: _____

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: <u>US Navy</u>
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: BB

Pool Series Location: MISSILE ROAD

F & G Code: BB

Data by: Ellen T. Bauder

Date: 5-6/86 Source(s)*: EQD

Recon Code: _____

: _____

Thos. Map Coord: 45: E 6

: _____

Lambert Coord: 242-1725

Subject to city plan: prior If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 77-0817 EX

Pool # in ()'s

Project name: Kearny Mesa Complex, Unit 4

Tent. Map #: _____

Final EIR date: _____

Mitigation fees req. am't : none Am't collected: _____

On-site mitigation: _____

Applicable community plan: Serra Mesa

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: _____
 Pool Series Location: POMERADO ROAD F & G Code: CC 1
 Data by: Ellen T. Bauder : _____
 Date: 5-7/86 Source(s)*: ASR, S. Crockett Recon Code: _____
 : _____ Thos. Map Coord: 32: F 5
 : _____ Lambert Coord: 298-1749
 Subject to city plan: _____ If not, jurisdiction: Poway
 CEQA only: X C. of Eng. 404 permit required: _____
 U S F & W Sec. 7 Consultation: _____ If yes, #: _____
 Project proposed: _____ If so, EQD+# : _____
 Pool # in ()'s : _____
 Project name: _____ : _____
 Tent. Map #: _____ Final EIR date: _____
 : _____ : _____
 Mitigation fees req. am't : _____ Am't collected: _____
 : _____
 On-site mitigation: _____
 Applicable community plan: _____
 Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>CC 1</u>	: <u>314-360-30</u>	: <u>8.16</u>	: <u>Billy Graham Evangelistic Assn., c/o</u>
:	:	:	: <u>J. Crabtree, 1300 Harmon Place,</u>
:	:	:	: <u>Minneapolis, MN 55403</u>
:	:	:	:
:	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: POMERADO ROAD

F & G Code: CC 2-4

Data by: Ellen T. Bauder

Date: 5-7/86 Source(s)*: EQD

Recon Code: _____

: _____

Thos. Map Coord: 32:E/F6

: _____

Lambert Coord: 290-1749

: 298-1749

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: X If so, EQD+# : 84-0489 (CC 2)

Pool # in ()'s : _____

: 85-0770 (CC 3-4)

Project name: Carmel Mountain Ranch

Tent. Map #: 84-0489 (CC2)

Final EIR date: 8/30/84 (CC 2)

: 12/23/85 (CC 3-4)

Mitigation fees req. am't : \$5,040 Am't collected: \$5,040

On-site mitigation: _____

Applicable community plan: Carmel Mountain Ranch

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____
: _____	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: _____
 Pool Series Location: POMERADO ROAD F & G Code: CC 5-6
 Data by: Ellen T. Bauder : _____
 Date: 5-7/86 Source(s)*: S. Crockett, ASR Recon Code: _____
 : _____ Thos. Map Coord: 36: F 1
 : _____ Lambert Coord: 290-1749
 Subject to city plan: _____ If not, jurisdiction: Poway
 CEQA only: X C. of Eng. 404 permit required: _____
 U S F & W Sec. 7 Consultation: _____ If yes, #: _____
 Project proposed: _____ If so, EQD+# : _____
 Pool # in ()'s : _____
 Project name: _____ : _____
 Tent. Map #: _____ Final EIR date: _____
 : _____ : _____
 Mitigation fees req. am't : _____ Am't collected: _____
 : _____
 On-site mitigation: _____
 Applicable community plan: _____
 Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>CC 5 ?</u>	: <u>314-040-17</u>	: <u>34.32</u>	: <u>Pomerado Investments, c/o Jerry</u>
:	:	:	: <u>Shullered, 3104 Fifth Av., San Diego</u>
:	:	:	: <u>CA 92103</u>
: <u>CC 6 ?</u>	: <u>314-350-36</u>	: <u>1.92</u>	: <u>Harry & Leta Lewis, 14620 Pomerado Rd.,</u>
:	:	:	: <u>Poway, CA 92064</u>
:	:	:	:
:	:	:	:

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VERNAL POOL PRESERVATION STATUS

City Code: _____
 Pool Series Location: POMERADO ROAD F & G Code: CC 7
 Data by: Ellen T. Bauder : _____
 Date: 5-8/86 Source(s)*: ASR, S. Crockett, Recon Code: _____
 : _____ Thos. Map Coord: 37: B 2
 : _____ Lambert Coord: 290-1749
 Subject to city plan: _____ If not, jurisdiction: Poway
 CEQA only: X C. of Eng. 404 permit required: _____
 U S F & W Sec. 7 Consultation: _____ If yes, #: _____
 Project proposed: X If so, EQD+# : _____
 Pool # in ()'s : _____
 Project name: Rancho Arbolitos : _____
 Tent. Map #: 41914R Final EIR date: _____
 : _____ : _____
 Mitigation fees req. am't : _____ Am't collected: _____
 : _____
 On-site mitigation: _____
 Applicable community plan: _____
 Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>CC 7</u>	: <u>314-050-17</u>	: <u>61.32</u>	: <u>Standard Pacific of San Diego,</u>
	: _____	: _____	: <u>7290 Clairemont Mesa Blvd., S D 92111</u>
: _____	: _____	: _____	: _____
	: _____	: _____	: _____
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: _____
 Pool Series Location: RANCHO BERNARDO F & G Code: DD 2-3
 Data by: Ellen T. Bauder : _____
 Date: 5-7/86 Source(s)*: EQD, ASR Recon Code: _____
 : _____ Thos. Map Coord: 32:A/B3
 : _____ Lambert Coord: 306-1725
 Subject to city plan: X If not, jurisdiction: _____
 CEQA only: X C. of Eng. 404 permit required: _____
 U S F & W Sec. 7 Consultation: _____ If yes, #: _____
 Project proposed: agriculture If so, EQD+# : _____
 Pool # in ()'s : _____
 Project name: _____ : _____
 Tent. Map #: _____ Final EIR date: _____
 : _____
 Mitigation fees req. am't : none Am't collected: _____
 : _____
 On-site mitigation: _____
 Applicable community plan: Future Urbanizing Zone
 Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>DD 2</u>	: <u>678-230-02</u>	: <u>476.18</u>	: <u>Univer. Devel., c/o Dr. Allyn Zautendyk</u>
	: _____	: _____	: <u>9404 Genesee Ave., La Jolla, CA 92037</u>
: <u>DD 3</u>	: <u>678-242-01</u>	: <u>163.71</u>	: <u>4 S Ranch Co., 225 Plaza St., Solana</u>
	: _____	: _____	: <u>Beach, CA 92075</u>
: _____	: _____	: _____	: _____
	: _____	: _____	: _____

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VERNAL POOL PRESERVATION STATUS

City Code: _____

Pool Series Location: RANCHO BERNARDO F & G Code: DD 4

Data by: Ellen T. Bauder _____

Date: 5-7/86 Source(s)*: ASR, EQD Recon Code: _____

_____ Thos. Map Coord: 32: C 2

_____ Lambert Coord: 306-1737

Subject to city plan: X If not, jurisdiction: _____

CEQA only: X C. of Eng. 404 permit required: _____

U S F & W Sec. 7 Consultation: _____ If yes, #: _____

Project proposed: _____ If so, EQD+# _____
Pool # in ()'s _____

Project name: _____

Tent. Map #: _____ Final EIR date: _____

Mitigation fees req. am't : _____ Am't collected: _____

On-site mitigation: _____

Applicable community plan: Future Urbanizing Zone

Special cond., overlay: _____

Landowner:

Pool #	Parcel #	Acres	Owners
: <u>DD 4</u>	: <u>674-040-03</u>	: <u>121.95</u>	: <u>4 S Ranch Co., 225 Plaza St., Solana</u>
:	:	:	: <u>Beach, CA 92075</u>
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:

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