**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | | CTR CRITERIA | | | | | REASONABLE POTENTIAL ANALYSIS (RPA) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Freshwater | | Human Health | | Basin Plan | | | | | | | |
| CTR# | DATE | Units | CV | MEC | C acute = CMC tot | C chronic = CCC tot | NOT applicable C hh W&O | C hh O | Title 22 GWR | Lowest C | MEC >= Lowest C | Tier 1 - Need limit? | B*** | B>C & present in Effl. | Tier 2 - Need limit? | Tier 3 - other info. ? |
| 1 | Antimony | µg/L | 0.6 | <1 | NONE | NONE | 14 | 4300 | 6 | 6 | NO | Go to Tier 2 | 0.9 | NO | Go to tier 3 | NO |
| 2 | Arsenic | µg/L | 0.6 | 7 | 340 | 150 | NONE | NONE | 10 | 10 | NO | Go to Tier 2 | 1.27 | NO | Go to tier 3 | LA River has GWR BU |
| 3 | Beryllium | µg/L | 0.6 | <0.2 | NONE | NONE | Narrative | Narrative | 4 | 4 | NO | Go to Tier 2 | ND | No | Go to tier 3 | NO |
| 4 | Cadmium* | µg/L | 1.4 | 0.5 | 15.54 | 5.8 | Narrative | Narrative | 5 | 5.8 | NO | Go to Tier 2 | 0.6 | NO | Go to tier 3 | TMDL |
| 5a | Chromium III* | µg/L | 0.6 | 9 | 4258.46 | 507.58 | Narrative | Narrative | | 507.58 | NO | Go to Tier 2 | 0.49 | NO | Go to tier 3 | NO |
| 5b | Chromium VI | µg/L | 0.6 | 9 | 16.3 | 11.4 | Narrative | Narrative | 50 | 11.4 | NO | Go to Tier 2 | 0.7 | NO | Go to tier 3 | NO |
| 6 | Copper* | µg/L | 0.3 | 13 | 39.29 | 23.78 | 1300 | NONE | | 23.78 | NO | Go to Tier 2 | 14 | NO | Go to tier 3 | TMDL |
| 7 | Lead* | µg/L | 1.2 | 1.4 | 329.2 | 12.83 | Narrative | Narrative | | 12.83 | No | Go to Tier 2 | 1 | NO | Go to tier 3 | TMDL |
| 8 | Mercury | µg/L | 0.6 | 0.2 | Reserved | Reserved | 0.05 | 0.051 | 2 | 0.051 | Yes | Yes | 0.03 | NO | Go to tier 3 | No |
| 9 | Nickel* | µg/L | 0.3 | 7 | 1185.09 | 131.76 | 610 | 4600 | 100 | 100 | NO | Go to Tier 2 | 5.11 | NO | Go to tier 3 | NO |
| 10 | Selenium | µg/L | 0.6 | 3 | RESERVED | 5 | Narrative | Narrative | 50 | 5 | NO | Go to Tier 2 | 0.7 | NO | Go to tier 3 | TMDL |
| 11 | Silver* | µg/L | 0.6 | <1 | 26.7 | none | NONE | NONE | | 26.7 | NO | Go to Tier 2 | 0.091 | No | Go to tier 3 | NO |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | HUMAN HEALTH CALCULATIONS | | | AQUATIC LIFE CALCULATIONS | | | | | AQUATIC LIFE CALCULATIONS | | | | PROPOS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Organisns Only | | | Freshwater | | | | | Freshwater | | | | |
| CTR# | DATE | Units | Tier 3 - need limit? | AMELhh = ECA = C hh O | MDEL/ AMEL multiplier | MDEL hh | ECA acute multiplier (p.9) | LTA acute | ECA chronic multiplier | LTA chronic | Lowest LTA | AMEL multiplier (n=4) | AMEL aq.life | MDEL multiplier (n=4) | MDEL aqlife | Lowest AMEL |
| 1 | Antimony | µg/L | NO | | | | | | | | | | | | | -- |
| 2 | Arsenic | µg/L | Yes | | | | | 0 | | 0 | 0 | | 0 | | 0 | See Table R-2 |
| 3 | Beryllium | µg/L | NO | | | | | | | | | | | | | -- |
| 4 | Cadmium* | µg/L | Yes | NA | | NA | 0.527 | 8.18958 | 0.715 | 4.147 | 4.147 | 1.26 | 5.22522 | 1.9 | 7.8793 | See Table R-3 |
| 5a | Chromium III* | µg/L | NO | | | | | | | | | | | | | -- |
| 5b | Chromium VI | µg/L | NO | N/A | | N/A | | 0 | | 0 | 0 | | 0 | | 0 | -- |
| 6 | Copper* | µg/L | Yes | N/A | | N/A | 0.527 | 20.70583 | 0.715 | 17.0027 | 17.0027 | 1.26 | 21.4234 | 1.9 | 32.3051 | See Table R-3 |
| 7 | Lead* | µg/L | Yes | | | | 0.373 | 122.7916 | 0.581 | 7.45423 | 7.45423 | 1.45 | 10.8086 | 2.68 | 19.9773 | See Table R-3 |
| 8 | Mercury | µg/L | N/A | 0.051 | 2.01 | 1.03E-01 | | NA | | NA | NA | | NA | | NA | 0.051 |
| 9 | Nickel* | µg/L | NO | | | | | | | | | | | | | -- |
| 10 | Selenium | µg/L | Yes | NA | | NA | 0.321 | #VALUE! | 0.527 | 2.635 | 2.905 | 1.55 | 4.50275 | 3.11 | 9.03455 | See Table R-3 |
| 11 | Silver* | µg/L | NO | | | | | | | | | | | | | -- |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| CTR# | DATE | Units | ED LIMITS Lowest MDEL | Recommendation |
|---|---|---|---|---|
| 1 | Antimony | µg/L | -- | No RP based on CTR/SIP; [RP triggered, based on TSD; need limit; see R3 spreadsheet] |
| 2 | Arsenic | µg/L | See Table R-2 | Limit because RP exists, when running TSD method. |
| 3 | Beryllium | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 4 | Cadmium* | µg/L | See Table R-3 | Limit because of LA River Metals TMDL (Reso. 2007-0014). |
| 5a | Chromium III* | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 5b | Chromium VI | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 6 | Copper* | µg/L | See Table R-3 | Limit because of LA River Metals TMDL (Reso. 2007-0014). |
| 7 | Lead* | µg/L | See Table R-3 | Limit because of LA River Metals TMDL (Reso. 2007-0014). |
| 8 | Mercury | µg/L | 1.03E-01 | RP exists, based on 2006-2009 monitoring data. |
| 9 | Nickel* | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 10 | Selenium | µg/L | See Table R-3 | Limit because of LA River Metals TMDL (Reso. 2007-0014). |
| 11 | Silver* | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | | CTR CRITERIA | | | | | REASONABLE POTENTIAL ANALYSIS (RPA) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Freshwater | | Human Health | | Basin Plan | | | | | | | |
| CTR# | DATE | Units | CV | MEC | C acute = CMC tot | C chronic = CCC tot | NOT applicable C hh W&O | C hh O | Title 22 GWR | Lowest C | MEC >= Lowest C | Tier 1 - Need limit? | B*** | B>C & present in Effl. | Tier 2 - Need limit? | Tier 3 - other info. ? |
| 12 | Thallium | µg/L | 0.6 | <0.2 | NONE | NONE | 1.7 | 6.3 | 2 | 2 | NO | Go to Tier 2 | 0.04 | NO | Go to tier 3 | NO |
| 13 | Zinc* | µg/L | 0.2 | 60 | 303.08 | 303.08 | none | NONE | | 303.08 | NO | Go to Tier 2 | 80 | NO | Go to tier 3 | TMDL |
| 14 | Cyanide | µg/L | 0.6 | 10 | 22 | 5.2 | 700 | 220,000 | 200 | 5.2 | Yes | Yes | *4.9* | NO | Go to tier 3 | NO |
| 15 | Asbestos | Fibers/ L | 0.6 | N/A | NONE | NONE | 7,000,000 | NONE | 7x10^6 | 7x10^6 | NO | Go to Tier 2 | | No | Go to tier 3 | NO |
| 16 | 2,3,7,8-TCDD (Dioxin) | µg/L | 0.6 | <5.4*10^-6 | NONE | NONE | 0.000000013 | 1.4E-08 | 3x10^-5 | 1.4E-08 | No | Go to Tier 2 | ND | No | Go to tier 3 | NO |
| 17 | Acrolein | µg/L | 0.6 | <2 | NONE | NONE | 320 | 780 | | 780 | NO | Go to Tier 2 | *1.6* | NO | Go to tier 3 | NO |
| 18 | Acrylonitrile | µg/L | 0.6 | <2 | NONE | NONE | 0.059 | 0.66 | | 0.66 | NO | Go to Tier 2 | <2 | No | Go to tier 3 | NO |
| 19 | Benzene | µg/L | 0.6 | <0.5 | NONE | NONE | 1.2 | 71 | 1 | 1 | NO | Go to Tier 2 | ND | NO | Go to tier 3 | NO |
| 20 | Bromoform | µg/L | 0.4 | 3.6 | NONE | NONE | 4.3 | 360 | | 360 | NO | Go to Tier 2 | 2.2 | NO | Go to tier 3 | NO |
| 21 | Carbon Tetrahloride | µg/L | 0.6 | <0.5 | NONE | NONE | 0.25 | 4.4 | 0.5 | 0.5 | NO | Go to Tier 2 | <0.5 | NO | Go to tier 3 | NO |
| 22 | Chlorobenzene | µg/L | 0.6 | <0.5 | NONE | NONE | 680 | 21,000 | | 21,000 | NO | Go to Tier 2 | ND | No | Go to tier 3 | NO |
| 23 | Dibromochloromethane | µg/L | 0.4 | 32.3 | NONE | NONE | 0.401 | 34 | | 34 | NO | Go to Tier 2 | 16.7 | NO | Go to tier 3 | NO |
| 24 | Chloroethane | µg/L | 0.6 | <0.5 | NONE | NONE | NONE | NONE | | NONE | No Criteria Available | Go to Tier 2 | ND | N/A | Go to tier 3 | NO |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | HUMAN HEALTH CALCULATIONS | | | AQUATIC LIFE CALCULATIONS | | | | | AQUATIC LIFE CALCULATIONS | | | | PROPOS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Organisns Only | | | Freshwater | | | | | Freshwater | | | | |
| CTR# | DATE | Units | Tier 3 - need limit? | AMELhh = ECA = C hh O | MDEL/ AMEL multiplier | MDEL hh | ECA acute multiplier (p.9) | LTA acute | ECA chronic multiplier | LTA chronic | Lowest LTA | AMEL multiplier (n=4) | AMEL aq.life | MDEL multiplier (n=4) | MDEL aqlife | Lowest AMEL |
| 12 | Thallium | µg/L | NO | | | | | | | | | | | | | -- |
| 13 | Zinc* | µg/L | Yes | | | NA | 0.643 | 194.88044 | 0.797 | 241.55476 | 194.8804 | 1.17 | 228.01 | 1.55 | 302.065 | See Table R-3 |
| 14 | Cyanide | µg/L | N/A | 220,000 | 2.01 | 442200 | 0.321 | 7.062 | 0.527 | 2.7404 | 2.7404 | 1.55 | 4.24762 | 3.11 | 8.52264 | 4.2 |
| 15 | Asbestos | Fibers/ L | NO | | | | | | | | | | | | | -- |
| 16 | 2,3,7,8-TCDD (Dioxin) | µg/L | NO | 0.000000014 | 2.01 | 2.81E-08 | 0.321 | #VALUE! | 0.527 | #VALUE! | | | | | | -- |
| 17 | Acrolein | µg/L | NO | | | | | | | | | | | | | -- |
| 18 | Acrylonitrile | µg/L | NO | | | | | | | | | | | | | -- |
| 19 | Benzene | µg/L | NO | | | | | | | | | | | | | -- |
| 20 | Bromoform | µg/L | NO | | | | | | | | | | | | | -- |
| 21 | Carbon Tetrahloride | µg/L | NO | | | | | | | | | | | | | -- |
| 22 | Chlorobenzene | µg/L | NO | | | | | | | | | | | | | -- |
| 23 | Dibromochloromethane | µg/L | NO | 34 | | 0 | | NA | | NA | NA | | NA | | NA | -- |
| 24 | Chloroethane | µg/L | NO | | | | | | | | | | | | | -- |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| CTR# | DATE | Units | ED LIMITS Lowest MDEL | Recommendation |
|---|---|---|---|---|
| 12 | Thallium | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 13 | Zinc* | µg/L | See Table R-3 | Limit because of LA River Metals TMDL (Reso. 2007-0014). |
| 14 | Cyanide | µg/L | 8.5 | RP exists, based on 2006-2009 monitoring data. |
| 15 | Asbestos | Fibers/ L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 16 | 2,3,7,8-TCDD (Dioxin) | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 17 | Acrolein | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 18 | Acrylonitrile | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 19 | Benzene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 20 | Bromoform | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 21 | Carbon Tetrahloride | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 22 | Chlorobenzene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 23 | Dibromochloromethane | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 24 | Chloroethane | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | | CTR CRITERIA | | | | | REASONABLE POTENTIAL ANALYSIS (RPA) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Freshwater | | Human Health | | Basin Plan | | | | | | | |
| CTR# | DATE | Units | CV | MEC | C acute = CMC tot | C chronic = CCC tot | NOT applicable C hh W&O | C hh O | Title 22 GWR | Lowest C | MEC >= Lowest C | Tier 1 - Need limit? | B*** | B>C & present in Effl. | Tier 2 - Need limit? | Tier 3 - other info. ? |
| 25 | 2-chloroethyl vinyl ether | µg/L | 0.6 | <1 | NONE | NONE | NONE | NONE | | NONE | No Criteria Available | Go to Tier 2 | ND | N/A | Go to tier 3 | NO |
| 26 | Chloroform | µg/L | 0.5 | 68 | NONE | NONE | Reserved | Reserved | | Reserved | No Criteria Available | Go to Tier 2 | 35.1 | N/A | Go to tier 3 | NO |
| 27 | Dichlorobromomethane | µg/L | 0.5 | 78.1 | NONE | NONE | 0.56 | 46 | | 46 | Yes | Yes | 29 | NO | Go to tier 3 | NO |
| 28 | 1,1-Dichloroethane | µg/L | 0.6 | <0.5 | NONE | NONE | NONE | NONE | 5 | 5 | NO | Go to Tier 2 | ND | No | Go to tier 3 | NO |
| 29 | 1,2-dichloroethane | µg/L | 0.6 | <0.5 | NONE | NONE | 0.38 | 99 | 0.5 | 0.5 | NO | Go to Tier 2 | ND | No | Go to tier 3 | NO |
| 30 | 1,1-Dichloroethylene | µg/L | 0.6 | <0.5 | NONE | NONE | 0.057 | 3.2 | 6 | 3.2 | NO | Go to Tier 2 | ND | No | Go to tier 3 | NO |
| 31 | 1,2-dichlooropropane | µg/L | 0.6 | <0.5 | NONE | NONE | 0.52 | 39 | 5 | 5 | NO | Go to Tier 2 | ND | No | Go to tier 3 | NO |
| 32 | 1,3-dichloropropylene | µg/L | 0.6 | <0.5 | NONE | NONE | 10 | 1,700 | 0.5 | 0.5 | NO | Go to Tier 2 | ND | No | Go to tier 3 | NO |
| 33 | Ethylbenzene | µg/L | 0.6 | <0.5 | NONE | NONE | 3100 | 29,000 | 300 | 300 | NO | Go to Tier 2 | ND | No | Go to tier 3 | NO |
| 34 | Methyl bromide | µg/L | 0.6 | 1 | NONE | NONE | 48 | 4,000 | | 4,000 | NO | Go to Tier 2 | ND | NO | Go to tier 3 | NO |
| 35 | Methyl chloride | µg/L | 0.6 | <0.5 | NONE | NONE | Narrative | Narrative | | Narrative | No Criteria Available | Go to Tier 2 | ND | N/A | Go to tier 3 | NO |
| 36 | Methylene chloride | µg/L | 0.6 | 2.1 | NONE | NONE | 4.7 | 1,600 | | 1,600 | NO | Go to Tier 2 | ND | No | Go to tier 3 | NO |
| 37 | 1,1,2,2-tetrachlroethane | µg/L | 0.6 | <0.5 | NONE | NONE | 0.17 | 11 | 1 | 1 | NO | Go to Tier 2 | ND | NO | Go to tier 3 | NO |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | HUMAN HEALTH CALCULATIONS | | | AQUATIC LIFE CALCULATIONS | | | | | AQUATIC LIFE CALCULATIONS | | | | PROPOS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Organisns Only | | | Freshwater | | | | | Freshwater | | | | |
| CTR# | DATE | Units | Tier 3 - need limit? | AMELhh = ECA = C hh O | MDEL/ AMEL multiplier | MDEL hh | ECA acute multiplier (p.9) | LTA acute | ECA chronic multiplier | LTA chronic | Lowest LTA | AMEL multiplier (n=4) | AMEL aq.life | MDEL multiplier (n=4) | MDEL aqlife | Lowest AMEL |
| 25 | 2-chloroethyl vinyl ether | µg/L | NO | | | | | | | | | | | | | -- |
| 26 | Chloroform | µg/L | NO | | | | | | | | | | | | | -- |
| 27 | Dichlorobromomethane | µg/L | N/A | 46 | 1.84 | 85 | | NA | | NA | NA | | NA | | NA | 46 |
| 28 | 1,1-Dichloroethane | µg/L | NO | | | | | | | | | | | | | -- |
| 29 | 1,2-dichloroethane | µg/L | NO | | | | | | | | | | | | | -- |
| 30 | 1,1-Dichloroethylene | µg/L | NO | | | | | | | | | | | | | -- |
| 31 | 1,2-dichlooropropane | µg/L | NO | | | | | | | | | | | | | -- |
| 32 | 1,3-dichloropropylene | µg/L | NO | | | | | | | | | | | | | -- |
| 33 | Ethylbenzene | µg/L | NO | | | | | | | | | | | | | -- |
| 34 | Methyl bromide | µg/L | NO | | | | | | | | | | | | | -- |
| 35 | Methyl chloride | µg/L | NO | | | | | | | | | | | | | -- |
| 36 | Methylene chloride | µg/L | NO | | | | | | | | | | | | | -- |
| 37 | 1,1,2,2-tetrachlroethane | µg/L | NO | | | | | | | | | | | | | -- |

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**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| CTR# | DATE | Units | ED LIMITS Lowest MDEL | Recommendation |
|---|---|---|---|---|
| 25 | 2-chloroethyl vinyl ether | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 26 | Chloroform | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 27 | Dichlorobromomethane | µg/L | 85 | RP exists, based on 2005-2009 monitoring data. |
| 28 | 1,1-Dichloroethane | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 29 | 1,2-dichloroethane | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 30 | 1,1-Dichloroethylene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 31 | 1,2-dichlooropropane | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 32 | 1,3-dichloropropylene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 33 | Ethylbenzene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 34 | Methyl bromide | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 35 | Methyl chloride | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 36 | Methylene chloride | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 37 | 1,1,2,2-tetrachlroethane | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |

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**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
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**Priority Pollutant Effluent Data**

| | | | | | CTR CRITERIA | | | | | REASONABLE POTENTIAL ANALYSIS (RPA) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Freshwater | | Human Health | | Basin Plan | | | | | | | |
| CTR# | DATE | Units | CV | MEC | C acute = CMC tot | C chronic = CCC tot | NOT applicable C hh W&O | C hh O | Title 22 GWR | Lowest C | MEC >= Lowest C | Tier 1 - Need limit? | B*** | B>C & present in Effl. | Tier 2 - Need limit? | Tier 3 - other info. ? |
| 38 | Tetrachloroethylene | µg/L | 0.6 | <0.5 | NONE | NONE | 0.8 | 8.85 | 5 | 5 | NO | Go to Tier 2 | 20.2 | No | Go to tier 3 | NO |
| 39 | Toluene | µg/L | 0.6 | ND | NONE | NONE | 6800 | 200,000 | 150 | 150 | NO | Go to Tier 2 | <0.5 | NO | Go to tier 3 | NO |
| 40 | Trans 1,2-Dichloroethylene | µg/L | 0.6 | ND | NONE | NONE | 700 | 140,000 | 10 | 10 | NO | Go to Tier 2 | ND | NO | Go to tier 3 | NO |
| 41 | 1,1,1-Trichloroethane | µg/L | 0.6 | <0.5 | NONE | NONE | Narrative | Narrative | 200 | 200 | NO | Go to Tier 2 | ND | NO | Go to tier 3 | NO |
| 42 | 1,1,2-trichloroethane | µg/L | 0.6 | <0.5 | NONE | NONE | 0.6 | 42 | 5 | 5 | NO | Go to Tier 2 | ND | NO | Go to tier 3 | NO |
| 43 | Trichloroethylene | µg/L | 0.6 | <0.5 | NONE | NONE | 2.7 | 81 | 5 | 5 | NO | Go to Tier 2 | ND | NO | Go to tier 3 | NO |
| 44 | Vinyl chloride | µg/L | 0.6 | ND | NONE | NONE | 2 | 525 | 0.5 | 0.5 | NO | Go to Tier 2 | ND | NO | Go to tier 3 | NO |
| 45 | 2-chlorophenol | µg/L | 0.6 | <5 | NONE | NONE | 120 | 400 | | 400 | NO | Go to Tier 2 | ND | NO | Go to tier 3 | NO |
| 46 | 2,4-dihlorophenol | µg/L | 0.6 | <5 | NONE | NONE | 93 | 790 | | 790 | NO | Go to Tier 2 | ND | NO | Go to tier 3 | NO |
| 47 | 2,4-dimethylphenol | µg/L | 0.6 | <2 | NONE | NONE | 540 | 2,300 | | 2,300 | NO | Go to Tier 2 | <2 | NO | Go to tier 3 | NO |
| 48 | 4,6-dinitro-o-resol (aka2-methyl-4,6-Dinitrophenol) | µg/L | 0.6 | <0.01 | NONE | NONE | 13.4 | 765 | | 765 | NO | Go to Tier 2 | <5 | NO | Go to tier 3 | NO |
| 49 | 2,4-dinitrophenol | µg/L | 0.6 | <10 | NONE | NONE | 70 | 14,000 | | 14,000 | NO | Go to Tier 2 | <10 | NO | Go to tier 3 | NO |
| 50 | 2-nitrophenol | µg/L | 0.6 | <10 | NONE | NONE | NONE | NONE | | None | No Criteria Available | Go to Tier 2 | <10 | N/A | Go to tier 3 | NO |

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**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | HUMAN HEALTH CALCULATIONS | | | AQUATIC LIFE CALCULATIONS | | | | | AQUATIC LIFE CALCULATIONS | | | | PROPOS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Organisns Only | | | Freshwater | | | | | Freshwater | | | | |
| CTR# | DATE | Units | Tier 3 - need limit? | AMELhh = ECA = C hh O | MDEL/ AMEL multiplier | MDEL hh | ECA acute multiplier (p.9) | LTA acute | ECA chronic multiplier | LTA chronic | Lowest LTA | AMEL multiplier (n=4) | AMEL aq.life | MDEL multiplier (n=4) | MDEL aqlife | Lowest AMEL |
| 38 | Tetrachloroethylene | µg/L | NO | 8.85 | 2.01 | 18 | | | | | | | | | | -- |
| 39 | Toluene | µg/L | NO | | | | | | | | | | | | | -- |
| 40 | Trans 1,2-Dichloroethylene | µg/L | NO | | | | | | | | | | | | | -- |
| 41 | 1,1,1-Trichloroethane | µg/L | NO | | | | | | | | | | | | | -- |
| 42 | 1,1,2-trichloroethane | µg/L | NO | | | | | | | | | | | | | -- |
| 43 | Trichloroethylene | µg/L | NO | | | | | | | | | | | | | -- |
| 44 | Vinyl chloride | µg/L | NO | | | | | | | | | | | | | -- |
| 45 | 2-chlorophenol | µg/L | NO | | | | | | | | | | | | | -- |
| 46 | 2,4-dihlorophenol | µg/L | NO | | | | | | | | | | | | | -- |
| 47 | 2,4-dimethylphenol | µg/L | NO | | | | | | | | | | | | | -- |
| 48 | 4,6-dinitro-o-resol (aka2-methyl-4,6-Dinitrophenol) | µg/L | NO | | | | | | | | | | | | | -- |
| 49 | 2,4-dinitrophenol | µg/L | NO | | | | | | | | | | | | | -- |
| 50 | 2-nitrophenol | µg/L | NO | | | | | | | | | | | | | -- |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| CTR# | DATE | Units | ED LIMITS Lowest MDEL | Recommendation |
|---|---|---|---|---|
| 38 | Tetrachloroethylene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 39 | Toluene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 40 | Trans 1,2-Dichloroethylene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 41 | 1,1,1-Trichloroethane | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 42 | 1,1,2-trichloroethane | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 43 | Trichloroethylene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 44 | Vinyl chloride | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 45 | 2-chlorophenol | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 46 | 2,4-dihlorophenol | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 47 | 2,4-dimethylphenol | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 48 | 4,6-dinitro-o-resol (aka2-methyl-4,6-Dinitrophenol) | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 49 | 2,4-dinitrophenol | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 50 | 2-nitrophenol | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | | CTR CRITERIA | | | | | REASONABLE POTENTIAL ANALYSIS (RPA) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Freshwater | | Human Health | | Basin Plan | | | | | | | |
| CTR# | DATE | Units | CV | MEC | C acute = CMC tot | C chronic = CCC tot | NOT applicable C hh W&O | C hh O | Title 22 GWR | Lowest C | MEC >= Lowest C | Tier 1 - Need limit? | B*** | B>C & present in Effl. | Tier 2 - Need limit? | Tier 3 - other info. ? |
| 51 | 4-nitrophenol | µg/L | 0.6 | <10 | NONE | NONE | NONE | NONE | | None | No Criteria Available | Go to Tier 2 | <10 | N/A | Go to tier 3 | NO |
| 52 | 3-Methyl-4-Chlorophenol (aka P-chloro-m-resol) | µg/L | 0.6 | ND | NONE | NONE | NONE | NONE | | None | No Criteria Available | Go to Tier 2 | ND | N/A | Go to tier 3 | NO |
| 53 | Pentachlorophenol | µg/L | 0.6 | ND | 23.83 | 16.54 | 0.28 | 8.2 | 1 | 1 | NO | Go to Tier 2 | <5 | NO | Go to tier 3 | NO |
| 54 | Phenol | µg/L | 0.6 | ND | NONE | NONE | 21,000 | 4,600,000 | | 4.6x10^6 | NO | Go to Tier 2 | <1 | NO | Go to tier 3 | NO |
| 55 | 2,4,6-trihlorophenol | µg/L | 0.6 | ND | NONE | NONE | 2.1 | 6.5 | | 6.5 | NO | Go to Tier 2 | <10 | No | Go to tier 3 | NO |
| 56 | Acenaphthene | µg/L | 0.6 | <1 | NONE | NONE | 1200 | 2,700 | | 2,700 | NO | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 57 | Acenaphthylene | µg/L | 0.6 | <5 | NONE | NONE | NONE | NONE | | NONE | No Criteria Available | Go to Tier 2 | ND | N/A | Go to tier 3 | NO |
| 58 | Anthracene | µg/L | 0.6 | <5 | NONE | NONE | 9600 | 110,000 | | 110,000 | NO | Go to Tier 2 | ND | No | Go to tier 3 | NO |
| 59 | Benzidine | µg/L | 0.6 | <5 | NONE | NONE | 0.00012 | 0.00054 | | 0.00054 | NO | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 60 | Benzo(a)Anthracene | µg/L | 0.6 | <5 | NONE | NONE | 0.0044 | 0.049 | | 0.049 | NO | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 61 | Benzo(a)Pyrene | µg/L | 0.6 | <10 | NONE | NONE | 0.0044 | 0.049 | | 0.049 | NO | Go to Tier 2 | <10 | No | Go to tier 3 | NO |
| 62 | Benzo(b)Fluoranthene | µg/L | 0.6 | <5 | NONE | NONE | 0.0044 | 0.049 | | 0.049 | ? | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 63 | Benzo(ghi)Perylene | µg/L | 0.6 | <5 | NONE | NONE | NONE | NONE | | NONE | No Criteria Available | Go to Tier 2 | <5 | N/A | Go to tier 3 | NO |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | HUMAN HEALTH CALCULATIONS | | | AQUATIC LIFE CALCULATIONS | | | | | AQUATIC LIFE CALCULATIONS | | | | PROPOS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Organisns Only | | | Freshwater | | | | | Freshwater | | | | |
| CTR# | DATE | Units | Tier 3 - need limit? | AMELhh = ECA = C hh O | MDEL/ AMEL multiplier | MDEL hh | ECA acute multiplier (p.9) | LTA acute | ECA chronic multiplier | LTA chronic | Lowest LTA | AMEL multiplier (n=4) | AMEL aq.life | MDEL multiplier (n=4) | MDEL aqlife | Lowest AMEL |
| 51 | 4-nitrophenol | µg/L | NO | | | | | | | | | | | | | -- |
| 52 | 3-Methyl-4-Chlorophenol (aka P-chloro-m-resol) | µg/L | NO | | | | | | | | | | | | | -- |
| 53 | Pentachlorophenol | µg/L | NO | | | | | | | | | | | | | -- |
| 54 | Phenol | µg/L | NO | | | | | | | | | | | | | -- |
| 55 | 2,4,6-trihlorophenol | µg/L | NO | | | | | | | | | | | | | -- |
| 56 | Acenaphthene | µg/L | NO | | | | | | | | | | | | | -- |
| 57 | Acenaphthylene | µg/L | NO | | | | | | | | | | | | | -- |
| 58 | Anthracene | µg/L | NO | | | | | | | | | | | | | -- |
| 59 | Benzidine | µg/L | NO | | | | | | | | | | | | | -- |
| 60 | Benzo(a)Anthracene | µg/L | NO | | | | | | | | | | | | | -- |
| 61 | Benzo(a)Pyrene | µg/L | NO | | | | | | | | | | | | | -- |
| 62 | Benzo(b)Fluoranthene | µg/L | NO | | | | | | | | | | | | | -- |
| 63 | Benzo(ghi)Perylene | µg/L | NO | | | | | | | | | | | | | -- |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| CTR# | DATE | Units | ED LIMITS Lowest MDEL | Recommendation |
|---|---|---|---|---|
| 51 | 4-nitrophenol | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 52 | 3-Methyl-4-Chlorophenol (aka P-chloro-m-resol) | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 53 | Pentachlorophenol | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 54 | Phenol | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 55 | 2,4,6-trihlorophenol | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 56 | Acenaphthene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 57 | Acenaphthylene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 58 | Anthracene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 59 | Benzidine | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 60 | Benzo(a)Anthracene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 61 | Benzo(a)Pyrene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 62 | Benzo(b)Fluoranthene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 63 | Benzo(ghi)Perylene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | | CTR CRITERIA | | | | | REASONABLE POTENTIAL ANALYSIS (RPA) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Freshwater | | Human Health | | Basin Plan | | | | | | | |
| CTR# | DATE | Units | CV | MEC | C acute = CMC tot | C chronic = CCC tot | NOT applicable C hh W&O | C hh O | Title 22 GWR | Lowest C | MEC >= Lowest C | Tier 1 - Need limit? | B*** | B>C & present in Effl. | Tier 2 - Need limit? | Tier 3 - other info. ? |
| 64 | Benzo(k)Fluoranthene | µg/L | 0.6 | <10 | NONE | NONE | 0.0044 | 0.049 | | 0.049 | ? | Go to Tier 2 | <10 | No | Go to tier 3 | NO |
| 65 | Bis(2-Chloroethoxy) methane | µg/L | 0.6 | <5 | NONE | NONE | NONE | NONE | | NONE | No Criteria Available | Go to Tier 2 | <5 | N/A | Go to tier 3 | NO |
| 66 | Bis(2-Chloroethyl)Ether | µg/L | 0.6 | <1 | NONE | NONE | 0.031 | 1.4 | | 1.4 | NO | Go to Tier 2 | <1 | No | Go to tier 3 | NO |
| 67 | Bis(2-Chloroisopropyl) Ether | µg/L | 0.6 | <2 | NONE | NONE | 1400 | 170,000 | | 170,000 | NO | Go to Tier 2 | <2 | No | Go to tier 3 | NO |
| 68 | Bis(2-Ethylhexyl) Phthalate - Malibu Creek | µg/L | 1 | 20 | NONE | NONE | 1.8 | 5.9 | 4 | 4 | Yes | Yes | 18 | Yes | Go to tier 3 | NO |
| 68 | Bis(2-Ethylhexyl) Phthalate- Los Angeles River | µg/L | 1 | 20 | NONE | NONE | 1.8 | 5.9 | 4 | 5.9 | Yes | Yes | 18 | Yes | Go to tier 3 | LA River has GWR BU |
| 69 | 4-Bromophenyl Phenyl Ether | µg/L | 0.6 | <5 | NONE | NONE | NONE | NONE | | NONE | No Criteria Available | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 70 | Butylbenzyl Phthalate | µg/L | 0.6 | <5 | NONE | NONE | 3000 | 5,200 | | 5,200 | NO | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 71 | 2-Chloronaphthalene | µg/L | 0.6 | <5 | NONE | NONE | 1700 | 4,300 | | 4,300 | NO | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 72 | 4-Chlorophenyl Phenyl Ether | µg/L | 0.6 | <5 | NONE | NONE | NONE | NONE | | NONE | No Criteria Available | Go to Tier 2 | <5 | N/A | Go to tier 3 | NO |
| 73 | Chrysene | µg/L | 0.6 | <5 | NONE | NONE | 0.0044 | 0.049 | | 0.049 | ? | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 74 | Dibenzo(a,h)Anthracene | µg/L | 0.6 | <10 | NONE | NONE | 0.0044 | 0.049 | | 0.049 | ? | Go to Tier 2 | <10 | No | Go to tier 3 | NO |
| 75 | 1,2-Dichlorobenzene | µg/L | 0.6 | <0.5 | NONE | NONE | 2700 | 17,000 | 600 | 600 | NO | Go to Tier 2 | <0.5 | NO | Go to tier 3 | NO |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | HUMAN HEALTH CALCULATIONS | | | AQUATIC LIFE CALCULATIONS | | | | | AQUATIC LIFE CALCULATIONS | | | | PROPOS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Organisns Only | | | Freshwater | | | | | Freshwater | | | | |
| CTR# | DATE | Units | Tier 3 - need limit? | AMELhh = ECA = C hh O | MDEL/ AMEL multiplier | MDEL hh | ECA acute multiplier (p.9) | LTA acute | ECA chronic multiplier | LTA chronic | Lowest LTA | AMEL multiplier (n=4) | AMEL aq.life | MDEL multiplier (n=4) | MDEL aqlife | Lowest AMEL |
| 64 | Benzo(k)Fluoranthene | µg/L | NO | | | | | | | | | | | | | -- |
| 65 | Bis(2-Chloroethoxy) methane | µg/L | NO | | | | | | | | | | | | | -- |
| 66 | Bis(2-Chloroethyl)Ether | µg/L | NO | | | | | | | | | | | | | -- |
| 67 | Bis(2-Chloroisopropyl) Ether | µg/L | NO | | | | | | | | | | | | | -- |
| 68 | Bis(2-Ethylhexyl) Phthalate - Malibu Creek | µg/L | N/A | 5.9 | 2.52 | 14.868 | | | | | | | | | | 5.9 |
| 68 | Bis(2-Ethylhexyl) Phthalate- Los Angeles River | µg/L | Yes, apply Title 22 MCL | 5.9 | 2.52 | 14.868 | | | | | | | | | | 4 |
| 69 | 4-Bromophenyl Phenyl Ether | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 70 | Butylbenzyl Phthalate | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 71 | 2-Chloronaphthalene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 72 | 4-Chlorophenyl Phenyl Ether | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 73 | Chrysene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 74 | Dibenzo(a,h)Anthracene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 75 | 1,2-Dichlorobenzene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| CTR# | DATE | Units | ED LIMITS Lowest MDEL | Recommendation |
|---|---|---|---|---|
| 64 | Benzo(k)Fluoranthene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 65 | Bis(2-Chloroethoxy) methane | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 66 | Bis(2-Chloroethyl)Ether | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 67 | Bis(2-Chloroisopropyl) Ether | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 68 | Bis(2-Ethylhexyl) Phthalate - Malibu Creek | µg/L | 15 | Limit because RP exists, based on 2006-2009 monitoring data. |
| 68 | Bis(2-Ethylhexyl) Phthalate- Los Angeles River | µg/L | 15 | Limit because RP exists, based on 2006-2009 monitoring data. Also, refer to Table R-2 for AMEL derivation. |
| 69 | 4-Bromophenyl Phenyl Ether | µg/L | -- | No Criteria Available |
| 70 | Butylbenzyl Phthalate | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 71 | 2-Chloronaphthalene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 72 | 4-Chlorophenyl Phenyl Ether | µg/L | -- | No Criteria Available |
| 73 | Chrysene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 74 | Dibenzo(a,h)Anthracene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 75 | 1,2-Dichlorobenzene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | | CTR CRITERIA | | | | | REASONABLE POTENTIAL ANALYSIS (RPA) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Freshwater | | Human Health | | Basin Plan | | | | | | | |
| CTR# | DATE | Units | CV | MEC | C acute = CMC tot | C chronic = CCC tot | NOT applicable C hh W&O | C hh O | Title 22 GWR | Lowest C | MEC >= Lowest C | Tier 1 - Need limit? | B*** | B>C & present in Effl. | Tier 2 - Need limit? | Tier 3 - other info. ? |
| 76 | 1,3-Dichlorobenzene | µg/L | 0.6 | <0.5 | NONE | NONE | 400 | 2,600 | | 2,600 | NO | Go to Tier 2 | <0.5 | No | Go to tier 3 | NO |
| 77 | 1,4-Dichlorobenzene | µg/L | 0.6 | <0.5 | NONE | NONE | 400 | 2,600 | 5 | 5 | NO | Go to Tier 2 | <0.32 | No | Go to tier 3 | NO |
| 78 | 3,3'-Dichlorobenzidine | µg/L | 0.6 | <5 | NONE | NONE | 0.04 | 0.077 | | 0.077 | ? | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 79 | Diethyl Phthalate | µg/L | 0.6 | 3.1 | NONE | NONE | 23000 | 120,000 | | 120,000 | NO | Go to Tier 2 | <2 | NO | Go to tier 3 | NO |
| 80 | Dimethyl Phthalate | µg/L | 0.6 | <2 | NONE | NONE | 313000 | 2,900,000 | | 2.9x10^6 | ? | Go to Tier 2 | <2 | No | Go to tier 3 | NO |
| 81 | Di-n-Butyl Phthalate | µg/L | 0.6 | <5 | NONE | NONE | 2700 | 12,000 | | 12,000 | NO | Go to Tier 2 | <5 | NO | Go to tier 3 | NO |
| 82 | 2,4-Dinitrotoluene | µg/L | 0.6 | <5 | NONE | NONE | 0.11 | 9.1 | | 9.1 | NO | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 83 | 2,6-Dinitrotoluene | µg/L | 0.6 | <5 | NONE | NONE | NONE | NONE | | NONE | No Criteria Available | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 84 | Di-n-Octyl Phthalate | µg/L | 0.6 | <5 | NONE | NONE | NONE | NONE | | NONE | No Criteria Available | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 85 | 1,2-Diphenylhydrazine | µg/L | 0.6 | ND | NONE | NONE | 0.04 | 0.54 | | 0.54 | NO | Go to Tier 2 | N/A | No | Go to tier 3 | NO |
| 86 | Fluoranthene | µg/L | 0.6 | <1 | NONE | NONE | 300 | 370 | | 370 | NO | Go to Tier 2 | <1 | No | Go to tier 3 | NO |
| 87 | Fluorene | µg/L | 0.6 | <5 | NONE | NONE | 1300 | 14,000 | | 14,000 | NO | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 88 | Hexachlorobenzene | µg/L | 0.6 | <1 | NONE | NONE | 0.00075 | 0.00077 | | 0.00077 | ? | Go to Tier 2 | <1 | No | Go to tier 3 | NO |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | HUMAN HEALTH CALCULATIONS | | | AQUATIC LIFE CALCULATIONS | | | | | AQUATIC LIFE CALCULATIONS | | | | PROPOS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Organisns Only | | | Freshwater | | | | | Freshwater | | | | |
| CTR# | DATE | Units | Tier 3 - need limit? | AMELhh = ECA = C hh O | MDEL/ AMEL multiplier | MDEL hh | ECA acute multiplier (p.9) | LTA acute | ECA chronic multiplier | LTA chronic | Lowest LTA | AMEL multiplier (n=4) | AMEL aq.life | MDEL multiplier (n=4) | MDEL aqlife | Lowest AMEL |
| 76 | 1,3-Dichlorobenzene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 77 | 1,4-Dichlorobenzene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 78 | 3,3'-Dichlorobenzidine | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 79 | Diethyl Phthalate | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 80 | Dimethyl Phthalate | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 81 | Di-n-Butyl Phthalate | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 82 | 2,4-Dinitrotoluene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 83 | 2,6-Dinitrotoluene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 84 | Di-n-Octyl Phthalate | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 85 | 1,2-Diphenylhydrazine | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 86 | Fluoranthene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 87 | Fluorene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 88 | Hexachlorobenzene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| CTR# | DATE | Units | ED LIMITS Lowest MDEL | Recommendation |
|---|---|---|---|---|
| 76 | 1,3-Dichlorobenzene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 77 | 1,4-Dichlorobenzene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 78 | 3,3'-Dichlorobenzidine | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 79 | Diethyl Phthalate | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 80 | Dimethyl Phthalate | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 81 | Di-n-Butyl Phthalate | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 82 | 2,4-Dinitrotoluene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 83 | 2,6-Dinitrotoluene | µg/L | -- | No Criteria Available |
| 84 | Di-n-Octyl Phthalate | µg/L | -- | No Criteria Available |
| 85 | 1,2-Diphenylhydrazine | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 86 | Fluoranthene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 87 | Fluorene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 88 | Hexachlorobenzene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | | CTR CRITERIA | | | | Basin Plan | REASONABLE POTENTIAL ANALYSIS (RPA) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Freshwater | | Human Health | | | | | | | | | |
| CTR# | DATE | Units | CV | MEC | C acute = CMC tot | C chronic = CCC tot | NOT applicable C hh W&O | C hh O | Title 22 GWR | Lowest C | MEC >= Lowest C | Tier 1 - Need limit? | B*** | B>C & present in Effl. | Tier 2 - Need limit? | Tier 3 - other info. ? |
| 89 | Hexachlorobutadiene | µg/L | 0.6 | <1 | NONE | NONE | 0.44 | 50 | | 50 | NO | Go to Tier 2 | <1 | No | Go to tier 3 | NO |
| 90 | Hexachlorocyclopentadiene | µg/L | 0.6 | <10 | NONE | NONE | 240 | 17,000 | | 17,000 | NO | Go to Tier 2 | <10 | No | Go to tier 3 | NO |
| 91 | Hexachloroethane | µg/L | 0.6 | <1 | NONE | NONE | 1.9 | 8.9 | | 8.9 | NO | Go to Tier 2 | <1 | No | Go to tier 3 | NO |
| 92 | Indeno(1,2,3-cd)Pyrene | µg/L | 0.6 | <10 | NONE | NONE | 0.0044 | 0.049 | | 0.049 | ? | Go to Tier 2 | <10 | No | Go to tier 3 | NO |
| 93 | Isophorone | µg/L | 0.6 | ND | NONE | NONE | 8.4 | 600 | | 600 | NO | Go to Tier 2 | <1 | No | Go to tier 3 | NO |
| 94 | Napthalene | µg/L | 0.6 | ND | NONE | NONE | NONE | NONE | | NONE | No Criteria Available | Go to Tier 2 | <1 | No | Go to tier 3 | NO |
| 95 | Nitrobenzene | µg/L | 0.6 | ND | NONE | NONE | 17 | 1,900 | | 1,900 | NO | Go to Tier 2 | <1 | No | Go to tier 3 | NO |
| 96 | N-Nitrosodimethylamine | µg/L | 0.6 | ND | NONE | NONE | 0.00069 | 8.1 | | 8.1 | NO | Go to Tier 2 | <0.36 | No | Go to tier 3 | NO |
| 97 | N-Nitrosodi-n-Propylamine | µg/L | 0.6 | ND | NONE | NONE | 0.005 | 1.4 | | 1.4 | NO | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 98 | N-Nitrosodiphenylamine | µg/L | 0.6 | ND | NONE | NONE | 5 | 16 | | 16 | NO | Go to Tier 2 | <1 | No | Go to tier 3 | NO |
| 99 | Phenanthrene | µg/L | 0.6 | ND | NONE | NONE | NONE | NONE | | NONE | No Criteria Available | Go to Tier 2 | <5 | NA | Go to tier 3 | NO |
| 100 | Pyrene | µg/L | 0.6 | ND | NONE | NONE | 960 | 11,000 | | 11,000 | NO | Go to Tier 2 | <5 | No | Go to tier 3 | NO |
| 101 | 1,2,4-Trichlorobenzene | µg/L | 0.6 | ND | NONE | NONE | NONE | NONE | | NONE | No Criteria Available | Go to Tier 2 | <5 | NA | Go to tier 3 | NO |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | HUMAN HEALTH CALCULATIONS | | | AQUATIC LIFE CALCULATIONS | | | | | AQUATIC LIFE CALCULATIONS | | | | PROPOS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Organisns Only | | | Freshwater | | | | | Freshwater | | | | |
| CTR# | DATE | Units | Tier 3 - need limit? | AMELhh = ECA = C hh O | MDEL/ AMEL multiplier | MDEL hh | ECA acute multiplier (p.9) | LTA acute | ECA chronic multiplier | LTA chronic | Lowest LTA | AMEL multiplier (n=4) | AMEL aq.life | MDEL multiplier (n=4) | MDEL aqlife | Lowest AMEL |
| 89 | Hexachlorobutadiene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 90 | Hexachlorocyclopentadiene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 91 | Hexachloroethane | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 92 | Indeno(1,2,3-cd)Pyrene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 93 | Isophorone | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 94 | Napthalene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 95 | Nitrobenzene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 96 | N-Nitrosodimethylamine | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 97 | N-Nitrosodi-n-Propylamine | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 98 | N-Nitrosodiphenylamine | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 99 | Phenanthrene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 100 | Pyrene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 101 | 1,2,4-Trichlorobenzene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| CTR# | DATE | Units | ED LIMITS Lowest MDEL | Recommendation |
|---|---|---|---|---|
| 89 | Hexachlorobutadiene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 90 | Hexachlorocyclopentadiene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 91 | Hexachloroethane | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 92 | Indeno(1,2,3-cd)Pyrene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 93 | Isophorone | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 94 | Napthalene | µg/L | -- | No Criteria Available |
| 95 | Nitrobenzene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 96 | N-Nitrosodimethylamine | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 97 | N-Nitrosodi-n-Propylamine | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 98 | N-Nitrosodiphenylamine | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 99 | Phenanthrene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 100 | Pyrene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 101 | 1,2,4-Trichlorobenzene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | | CTR CRITERIA | | | | | REASONABLE POTENTIAL ANALYSIS (RPA) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Freshwater | | Human Health | | Basin Plan | | | | | | | |
| CTR# | DATE | Units | CV | MEC | C acute = CMC tot | C chronic = CCC tot | NOT applicable C hh W&O | C hh O | Title 22 GWR | Lowest C | MEC >= Lowest C | Tier 1 - Need limit? | B*** | B>C & present in Effl. | Tier 2 - Need limit? | Tier 3 - other info. ? |
| 102 | Aldrin | µg/L | 0.6 | 0.34 | 3 | NONE | 0.00013 | 0.00014 | | 0.00014 | Yes | Yes | <0.005 | N/A | Go to tier 3 | NO |
| 103 | alpha-BHC | µg/L | 0.6 | 0.014 | NONE | NONE | 0.0039 | 0.013 | | 0.013 | Yes | Yes | <0.01 | No | Go to tier 3 | NO |
| 104 | beta-BHC | µg/L | 0.6 | <0.005 | NONE | NONE | 0.014 | 0.046 | | 0.046 | NO | Go to Tier 2 | N/A | No | Go to tier 3 | NO |
| 105 | gamma-BHC (aka Lindane) | µg/L | 0.6 | ND | 0.95 | NONE | 0.019 | 0.063 | 0.2 | 0.063 | NO | Go to Tier 2 | <0.005 | NO | Go to tier 3 | NO |
| 106 | delta-BHC | µg/L | 0.6 | <0.005 | NONE | NONE | NONE | NONE | | NONE | No Criteria Available | Go to Tier 2 | 0.03 | No | Go to tier 3 | NO |
| 107 | Chlordane | µg/L | 0.6 | ND | 2.4 | 0.0043 | 0.00057 | 0.00059 | | 0.00059 | ? | Yes | <0.01 | No | Go to tier 3 | NO |
| 108 | 4,4'-DDT | µg/L | 0.6 | <0.005 | 1.1 | 0.001 | 0.00059 | 0.00059 | | 0.00059 | ? | No | <0.01 | No | Go to tier 3 | NO |
| 109 | 4,4'-DDE | µg/L | 0.6 | 0.019 | NONE | NONE | 0.00059 | 0.00059 | | 0.00059 | Yes | Yes | <0.01 | No | Go to tier 3 | NO |
| 110 | 4,4'-DDD | µg/L | 0.6 | 0.017 | NONE | NONE | 0.00083 | 0.00084 | | 0.00084 | Yes | Yes | <0.01 | No | Go to tier 3 | NO |
| 111 | Dieldrin | µg/L | 0.6 | 0.032 | 0.24 | 0.056 | 0.00014 | 0.00014 | | 0.00014 | Yes | Yes | <0.01 | No | Go to tier 3 | NO |
| 112 | alpha-Endosulfan | µg/L | 0.6 | <0.01 | 0.22 | 0.056 | 110 | 240 | | 0.056 | NO | Go to Tier 2 | N/A | No | Go to tier 3 | NO |
| 113 | beta-Endosulfan | µg/L | 0.6 | <0.01 | 0.22 | 0.056 | 110 | 240 | | 0.056 | NO | Go to Tier 2 | N/A | No | Go to tier 3 | NO |
| 114 | Endosulfan Sulfate | µg/L | 0.6 | <0.01 | NONE | NONE | 110 | 240 | | 240 | NO | Go to Tier 2 | N/A | No | Go to tier 3 | NO |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | HUMAN HEALTH CALCULATIONS | | | AQUATIC LIFE CALCULATIONS | | | | | AQUATIC LIFE CALCULATIONS | | | | PROPOS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Organisns Only | | | Freshwater | | | | | Freshwater | | | | |
| CTR# | DATE | Units | Tier 3 - need limit? | AMELhh = ECA = C hh O | MDEL/ AMEL multiplier | MDEL hh | ECA acute multiplier (p.9) | LTA acute | ECA chronic multiplier | LTA chronic | Lowest LTA | AMEL multiplier (n=4) | AMEL aq.life | MDEL multiplier (n=4) | MDEL aqlife | Lowest AMEL |
| 102 | Aldrin | µg/L | N/A | 0.00014 | 2.01 | 0.0003 | 0.321 | 0.963 | 0.527 | #VALUE! | 0.963 | 1.55 | 1.49265 | 3.11 | 2.99493 | 0.00014 |
| 103 | alpha-BHC | µg/L | N/A | 0.013 | 2.01 | 0.026 | 0.321 | #VALUE! | 0.527 | #VALUE! | | | | | | 0.013 |
| 104 | beta-BHC | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 105 | gamma-BHC (aka Lindane) | µg/L | NO | 0.063 | | 0.000 | | 0 | | #VALUE! | 0.305 | | 0 | | 0 | 0 |
| 106 | delta-BHC | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 107 | Chlordane | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 108 | 4,4'-DDT | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 109 | 4,4'-DDE | µg/L | N/A | 0.00059 | 2.01 | 0.0012 | 0.321 | #VALUE! | 0.527 | #VALUE! | #VALUE! | 1.55 | #VALUE! | 3.11 | ####### | 0.00059 |
| 110 | 4,4'-DDD | µg/L | N/A | 0.00084 | 2.01 | 0.0017 | 0.321 | #VALUE! | 0.527 | #VALUE! | #VALUE! | 1.55 | #VALUE! | 3.11 | ####### | 0.00084 |
| 111 | Dieldrin | µg/L | N/A | 0.00014 | 2.01 | 0.0003 | 0.321 | 0.07704 | 0.527 | 0.029512 | 0.07704 | 1.55 | 0.11941 | 3.11 | 0.23959 | 0.00014 |
| 112 | alpha-Endosulfan | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 113 | beta-Endosulfan | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 114 | Endosulfan Sulfate | µg/L | NO | | | 0.000 | | | | | | | | | | -- |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| CTR# | DATE | Units | ED LIMITS Lowest MDEL | Recommendation |
|---|---|---|---|---|
| 102 | Aldrin | µg/L | 0.0003 | Lmit because RP exists, based on 2006-2009 monitoring data. |
| 103 | alpha-BHC | µg/L | 0.026 | Lmit because RP exists, based on 2006-2009 monitoring data. |
| 104 | beta-BHC | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 105 | gamma-BHC (aka Lindane) | µg/L | 0.00 | No limit because no RP, based on 2006-2009 monitoring data. |
| 106 | delta-BHC | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 107 | Chlordane | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 108 | 4,4'-DDT | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 109 | 4,4'-DDE | µg/L | 0.0012 | Lmit because RP exists, based on 2006-2009 monitoring data. |
| 110 | 4,4'-DDD | µg/L | 0.0017 | Lmit because RP exists, based on 2006-2009 monitoring data. |
| 111 | Dieldrin | µg/L | 0.0003 | Lmit because RP exists, based on 2006-2009 monitoring data. |
| 112 | alpha-Endosulfan | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 113 | beta-Endosulfan | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 114 | Endosulfan Sulfate | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | | CTR CRITERIA | | | | | REASONABLE POTENTIAL ANALYSIS (RPA) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Freshwater | | Human Health | | Basin Plan | | | | | | | |
| CTR# | DATE | Units | CV | MEC | C acute = CMC tot | C chronic = CCC tot | NOT applicable C hh W&O | C hh O | Title 22 GWR | Lowest C | MEC >= Lowest C | Tier 1 - Need limit? | B*** | B>C & present in Effl. | Tier 2 - Need limit? | Tier 3 - other info. ? |
| 115 | Endrin | µg/L | 0.6 | 0.043 | 0.086 | 0.036 | 0.76 | 0.81 | | 0.036 | Yes | Yes | N/A | No | Go to tier 3 | NO |
| 116 | Endrin Aldehyde | µg/L | 0.6 | <0.01 | NONE | NONE | 0.76 | 0.81 | | 0.81 | NO | Go to Tier 2 | N/A | No | Go to tier 3 | NO |
| 117 | Heptachlor | µg/L | 0.6 | 0.017 | 0.52 | 0.0038 | 0.00021 | 0.00021 | | 0.00021 | Yes | Yes | <0.01 | No | Go to tier 3 | NO |
| 118 | Heptachlor Epoxide | µg/L | 0.6 | <0.01 | 0.52 | 0.0038 | 0.0001 | 0.00011 | | 0.00011 | NO | Go to Tier 2 | <0.01 | No | Go to tier 3 | NO |
| | Polychlorinated biphenyls (PCBs) | µg/L | 0.6 | ND | | | | | | | NO | Go to Tier 2 | N/A | No | Go to tier 3 | NO |
| 119 | Aroclor 1016 | µg/L | 0.6 | ND | NONE | 0.014 | 0.00017 | 0.00017 | | 0.00017 | NO | Go to Tier 2 | <0.5 | No | Go to tier 3 | NO |
| 120 | Aroclor 1221 | µg/L | 0.6 | ND | NONE | 0.014 | 0.00017 | 0.00017 | | 0.00017 | NO | Go to Tier 2 | <0.5 | No | Go to tier 3 | NO |
| 121 | Aroclor 1232 | µg/L | 0.6 | ND | NONE | 0.014 | 0.00017 | 0.00017 | | 0.00017 | NO | Go to Tier 2 | <0.5 | No | Go to tier 3 | NO |
| 122 | Aroclor 1242 | µg/L | 0.6 | ND | NONE | 0.014 | 0.00017 | 0.00017 | | 0.00017 | NO | Go to Tier 2 | <0.5 | No | Go to tier 3 | NO |
| 123 | Aroclor 1248 | µg/L | 0.6 | ND | NONE | 0.014 | 0.00017 | 0.00017 | | 0.00017 | NO | Go to Tier 2 | <0.5 | No | Go to tier 3 | NO |
| 124 | Aroclor 1254 | µg/L | 0.6 | ND | NONE | 0.014 | 0.00017 | 0.00017 | | 0.00017 | NO | Go to Tier 2 | <0.5 | No | Go to tier 3 | NO |
| 125 | Aroclor 1260 | µg/L | 0.6 | ND | NONE | 0.014 | 0.00017 | 0.00017 | | 0.00017 | NO | Go to Tier 2 | <0.5 | No | Go to tier 3 | NO |
| 126 | Toxaphene | µg/L | 0.6 | ND | 0.73 | 0.0002 | 0.0073 | 0.00075 | 3 | 0.0002 | NO | Go to Tier 2 | <0.05 | No | Go to tier 3 | NO |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | HUMAN HEALTH CALCULATIONS | | | AQUATIC LIFE CALCULATIONS | | | | | AQUATIC LIFE CALCULATIONS | | | | PROPOS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Organisns Only | | | Freshwater | | | | | Freshwater | | | | |
| CTR# | DATE | Units | Tier 3 - need limit? | AMELhh = ECA = C hh O | MDEL/ AMEL multiplier | MDEL hh | ECA acute multiplier (p.9) | LTA acute | ECA chronic multiplier | LTA chronic | Lowest LTA | AMEL multiplier (n=4) | AMEL aq.life | MDEL multiplier (n=4) | MDEL aqlife | Lowest AMEL |
| 115 | Endrin | µg/L | N/A | 0.81 | 2.01 | 1.6281 | 0.321 | 0.027606 | 0.527 | 0.018972 | 0.027606 | 1.55 | 0.04279 | 3.11 | 0.08585 | 0.042789 |
| 116 | Endrin Aldehyde | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 117 | Heptachlor | µg/L | N/A | 0.00021 | 2.01 | 0.0004 | 0.321 | 0.16692 | 0.527 | 0.0020026 | 0.16692 | 1.55 | 0.25873 | 3.11 | 0.51912 | 0.00021 |
| 118 | Heptachlor Epoxide | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| | Polychlorinated biphenyls (PCBs) | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 119 | Aroclor 1016 | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 120 | Aroclor 1221 | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 121 | Aroclor 1232 | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 122 | Aroclor 1242 | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 123 | Aroclor 1248 | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 124 | Aroclor 1254 | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 125 | Aroclor 1260 | µg/L | NO | | | 0.000 | | | | | | | | | | -- |
| 126 | Toxaphene | µg/L | NO | | | 0.000 | | | | | | | | | | -- |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| CTR# | DATE | Units | ED LIMITS Lowest MDEL | Recommendation |
|---|---|---|---|---|
| 115 | Endrin | µg/L | 0.08585466 | Limit because RP exists, based on 2006-2009 monitoring data. |
| 116 | Endrin Aldehyde | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 117 | Heptachlor | µg/L | 0.0004 | Limit because RP exists, based on 2006-2009 monitoring data. |
| 118 | Heptachlor Epoxide | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| | Polychlorinated biphenyls (PCBs) | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 119 | Aroclor 1016 | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 120 | Aroclor 1221 | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 121 | Aroclor 1232 | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 122 | Aroclor 1242 | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 123 | Aroclor 1248 | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 124 | Aroclor 1254 | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 125 | Aroclor 1260 | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |
| 126 | Toxaphene | µg/L | -- | No limit because no RP, based on 2006-2009 monitoring data. |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | | CTR CRITERIA | | | | | REASONABLE POTENTIAL ANALYSIS (RPA) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Freshwater | | Human Health | | Basin Plan | | | | | | | |
| **CTR#** | **DATE** | **Units** | **CV** | **MEC** | **C acute = CMC tot** | **C chronic = CCC tot** | **NOT applicable C hh W&O** | **C hh O** | **Title 22 GWR** | **Lowest C** | **MEC >= Lowest C** | **Tier 1 - Need limit?** | **B*** ** | **B>C & present in Effl.** | **Tier 2 - Need limit?** | **Tier 3 - other info. ?** |
| **FOOTNOTE:** | | | | | | | | | | | | | | | | |
| * | These metals are hardness dependent. CTR criteria was calculated using an effluent hardness value of 211 mg/L (since no upstream flow most of the times). | | | | | | | | | | | | | | | |
| **NOTES** | | | | | | | | | | | | | | | | |
| | bolded values denote detected results | | | | | | | | | | | | | | | |
| | italicized values denote detected but not quantified (estimated) results. | | | | | | | | | | | | | | | |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| | | | | HUMAN HEALTH CALCULATIONS | | | AQUATIC LIFE CALCULATIONS | | | | | AQUATIC LIFE CALCULATIONS | | | | PROPOS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Organisns Only | | | Freshwater | | | | | Freshwater | | | | |
| CTR# | DATE | Units | Tier 3 - need limit? | AMELhh = ECA = C hh O | MDEL/ AMEL multiplier | MDEL hh | ECA acute multiplier (p.9) | LTA acute | ECA chronic multiplier | LTA chronic | Lowest LTA | AMEL multiplier (n=4) | AMEL aq.life | MDEL multiplier (n=4) | MDEL aqlife | Lowest AMEL |
| **FOOTNOTE:** | | | | | | | | | | | | | | | | |
| * | These metals are hardness dependent. ( | | | | | | | | | | | | | | | |
| **NOTES** | | | | | | | | | | | | | | | | |
| | bolded values denote detected results | | | | | | | | | | | | | | | |
| | italicized values denote detected but not | | | | | | | | | | | | | | | |

**TABLE R1**
**Reasonable Potential Analysis and Limit Derivation**
**Using SIP Methodology**
**Las Virgenes Municipal Water District - Tapia Water Reclamation Facility**
**(NPDES No. CA0056014, CI No.4760)**
**Priority Pollutant Effluent Data**

| CTR# | DATE | Units | ED LIMITS Lowest MDEL | Recommendation |
|---|---|---|---|---|
| **FOOTNOTE:** | | | | |
| * | These metals are hardness dependent. ( | | | |
| **NOTES** | | | | |
| | bolded values denote detected results | | | |
| | italicized values denote detected but not | | | |