

APPENDIX CR-2 – Summary Table of needed Threshold Standard updates and amendments.

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Air Quality	Ozone	Ozone	Maintain ozone concentrations at or below 0.08 parts per million averaged over 1 hour.	Keep	N/A
Air Quality	Visibility	Sub-Regional Visibility	Achieve an extinction coefficient of 50 Mm ⁻¹ at least 50 percent of the time as calculated from aerosol species concentrations measured at the South Lake Tahoe monitoring site (visual range of 78 kilometers, 48 miles); and	Keep	N/A
Air Quality	Visibility	Sub-Regional Visibility	Achieve an extinction coefficient of 125 Mm ⁻¹ at least 90 percent of the time as calculated from aerosol species concentrations measured at the South Lake Tahoe monitoring site (visual range of 31 kilometers, 19 miles); and calculations will be made on three year running periods. Beginning with the existing 1991-93 monitoring data as the performance standards to be met or exceeded.)	Keep	N/A
Air Quality	Carbon Monoxide	Carbon Monoxide	Maintain carbon monoxide concentrations at or below 9 parts per million averaged over 8 hours provided that each state shall review and certify to TRPA by February 28, 1983, as to what their carbon monoxide standards are as of that date, and this TRPA threshold standard shall be changed effective February 28, 1983, if necessary, to be the applicable state carbon monoxide standard applicable to the respective portions of the region in accordance with Article V (d) of the <i>Bi-State Compact</i> .	Need to update standard to reflect California and Nevada Standard (6 parts per million).	1
Air Quality	Visibility	Regional Visibility	Reduce wood smoke emissions by 15% of the 1981 base values through technology, management practices and educational programs.§ Amended 03/22/00	Replace standard with state standards for Particulate Matter.	1

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Air Quality	Nitrate Deposition	Nitrate Deposition	Reduce the transport of nitrates into the Basin and reduce oxides of nitrogen (NOx) produced in the Basin consistent with the water quality thresholds (Management).	Revise to better reflect contemporary science related to atmospheric N.	2
Air Quality	Odor	Diesel Fumes	It is the policy of the TRPA Governing Board in the development of the <i>Regional Plan</i> to reduce fumes from diesel engines to the extent possible (Policy Statement).	Delete from Resolution 82-11, already policy and ordinance in <i>Regional Plan</i> . Alternatively, replace with surrogate criteria pollutant standards for ambient air quality.	2
Air Quality	Ozone	Oxides of Nitrogen	Maintain oxides of nitrogen (NOx) emissions at or below the 1981 level.	Revise to reflect federal and state NO ₂ concentration standards.	2
Air Quality	Visibility	Regional Visibility	Achieve an extinction coefficient of 25 Mm ⁻¹ at least 50 percent of the time as calculated from aerosol species concentrations measured at the Bliss State Park monitoring site (visual range of 156 kilometer, 97 miles); and	Revise to reflect recent DRI research (Chen 2011) and new federal visibility rules.	2
Air Quality	Visibility	Regional Visibility	Achieve an extinction coefficient of 34 Mm ⁻¹ at least 90 percent of the time as calculated from aerosol species concentrations measured at the Bliss State Park monitoring site (visual range of 115 kilometers, 71 miles). §(Calculations will be made on three year running periods. Beginning with the existing 1991-93 monitoring data as the performance standards to be met or exceeded.)	Revise to reflect recent DRI research (Chen 2011) and new federal visibility rules.	2
Air Quality	Visibility	Sub-Regional Visibility	Reduce suspended soil particles by 30% of the 1981 base values through technology, management practices and educational programs.	Replace standard with state standards for particulate matter.	2

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Air Quality	Visibility	Sub-Regional Visibility	Reduce wood smoke emissions by 15% of the 1981 base values through technology, management practices and educational programs. Reduce vehicle miles of travel by 10% of the 1981 base values.	Replace standard with state standards for particulate matter.	2
Air Quality	Carbon Monoxide	Traffic Volume	Reduce traffic volumes on the U.S. 50 Corridor by 7 percent during the winter from the 1981 base year between 4:00 p.m. and 12:00 midnight, provided that those traffic volumes shall be amended as necessary to meet the respective state standards.	Review and revise relationship between CO and winter traffic volume.	3
Air Quality	Nitrate Deposition	VMT	Reduce vehicle miles of travel in the Basin by 10% of the 1981 base year values (numeric).	Standard listed for multiple AQ Indicator Reporting Categories. Confirm whether VMT is still a meaningful indicator to measure as it is unclear that meeting VMT standard will result in achieving Lake clarity objectives or visibility objectives.	3
Fisheries	Instream Flows	Flow protection	Until instream flow standards are established in the <i>Regional Plan</i> to protect fishery values, a nondegradation standard shall apply to instream flows.	Remove from Resolution 82-11, policies and ordinances already sufficient to protect stream habitat values. Apply minimum flow standards on a case by case or project by project basis.	2
Fisheries	Instream Flows	Water Diversions	It shall be a policy of the TRPA Governing Board to seek transfers of existing points of water diversion from streams to Lake Tahoe.	Remove from Resolution 82-11, policies and ordinances already sufficient to protect fisheries instream flow values.	2

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Fisheries	Lake Habitat	Littoral Substrate	A nondegradation standard shall apply to fish habitat in Lake Tahoe. Achieve the equivalent of 5,948 total acres of excellent habitat ^s as indicated by the Prime Fish Habitat Overlay Map dated 5/19/97 as may be amended from time to time.	Ensure sufficient safeguards (policies and ordinances) are in place in Regional Plan then replace with recommended indicators and standards resulting from nearshore indicators research (DRI, UC Davis, UNR).	2
Fisheries	Stream Habitat	Habitat Quality	Maintain the 75 miles of excellent, 105 miles of good, and 38 miles of marginal stream habitat as indicated by the Stream Habitat Quality Overlay map, amended May 1997, based upon the re-rated stream scores set forth in Appendix C-1 of the 1996 Evaluation Report. § Amended 5/28/97	Replace standards with CA state biological criteria (standards) or others as appropriate.	2
Fisheries	Lahontan Cutthroat Trout (LCT)	Reintroduction of LCT	It shall be the policy of the TRPA Governing Board to support, in response to justifiable evidence, state and federal efforts to reintroduce Lahontan cutthroat trout.	Delete from Resolution 82-11, policies and ordinances have already been incorporated into the <i>Regional Plan</i> . Alternatively, replace with meaningful and achievable Numerical Standard based on population status.	3
Noise	Cumulative Noise Events	Commercial Areas	Background noise levels shall not exceed the following levels 60 CNEL (dBa)	Review basis of the Standard and determine if it is reasonably attainable.	3
Noise	Cumulative Noise Events	Critical Wildlife Habitat Areas	45 CNEL (dBa)	Review basis of the Standard and determine if it is reasonably attainable and appropriate.	3

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Noise	Cumulative Noise Events	High Density Residential Areas	Background noise levels shall not exceed the following levels: 55 CNEL (dBa)	Review basis of the Standard and determine if it is reasonably attainable.	3
Noise	Cumulative Noise Events	Hotel/Motel Areas	Background noise levels shall not exceed the following levels: 60 CNEL (dBa)	Review basis of the Standard and determine if it is reasonably attainable.	3
Noise	Cumulative Noise Events	Industrial Areas	Background noise levels shall not exceed the following levels: 65 CNEL (dBa)	Review basis of the Standard and determine if it is reasonably attainable.	3
Noise	Cumulative Noise Events	Low Density Residential Areas	Background noise levels shall not exceed the following levels: 50 CNEL (dBa)	Review basis of the Standard and determine if it is reasonably attainable.	3
Noise	Cumulative Noise Events	Rural Outdoor Recreation Areas	Background noise levels shall not exceed the following levels: 50 CNEL (dBa)	Review basis of the Standard and determine if it is reasonably attainable.	3
Noise	Cumulative Noise Events	Transportation Corridors	Highway 50 - Background noise levels shall not exceed the following levels: 65 CNEL (dBa) (source: TRPA Goals and Policies)	Review basis of the Standard and determine if it is reasonably attainable.	3
Noise	Cumulative Noise Events	Transportation Corridors	Highway 89, 207, 28, 267 and 431 - Background noise levels shall not exceed the following levels: 55 CNEL (dBa) (source: TRPA Goals and Policies)	Review basis of the Standard and determine if it is reasonably attainable.	3
Noise	Cumulative Noise Events	Transportation Corridors	South Lake Tahoe Airport (flight path) - Background noise levels shall not exceed the following levels: 60 CNEL (dBa) (source: TRPA Goals and Policies)	Review basis of the Standard and determine if it is reasonably attainable.	3
Noise	Cumulative Noise Events	Urban Outdoor Recreation Areas	Background noise levels shall not exceed the following levels 55 CNEL (dBa)	Review basis of the Standard and determine if it is reasonably attainable.	3

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Noise	Cumulative Noise Events	Wilderness and Roadless Areas	Background noise levels shall not exceed the following levels 45 CNEL (dBa)	Review basis of the Standard and determine if it is reasonably attainable.	3
Noise	Single Event Noise	Aircraft	The maximum noise levels allowed per Resolution 82-11.	Determine if attainable and within authority/capacity of TRPA to enforce.	3
Noise	Single Event Noise	Motor Vehicles Greater Than 6,000 GVW	The maximum noise levels allowed per Resolution 82-11.	Determine if attainable and within authority/capacity of TRPA to enforce.	3
Noise	Single Event Noise	Motor Vehicles Less Than 6,000 GVW	The maximum noise levels allowed per Resolution 82-11.	Determine if attainable and within authority/capacity of TRPA to enforce.	3
Noise	Single Event Noise	Motorcycles	The maximum noise levels allowed per Resolution 82-11.	Determine if attainable and within authority/capacity of TRPA to enforce.	3
Noise	Single Event Noise	Off-Road Vehicles	The maximum noise levels allowed per Resolution 82-11.	Determine if attainable and within authority/capacity of TRPA to enforce.	3
Noise	Single Event Noise	Snowmobiles	The maximum noise levels allowed per Resolution 82-11.	Determine if attainable and within authority/capacity of TRPA to enforce.	3
Noise	Single Event Noise	Watercraft	The maximum noise levels allowed per Resolution 82-11.	Determine if attainable and within authority/capacity of TRPA to enforce	3

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Recreation	Fair Share	Fair Share	It shall be the policy of the TRPA Governing Body in development of the Regional Plan to establish and ensure a fair share of the total Basin capacity for outdoor recreation is available to the general public.	Remove from Resolution 82-11; policies and ordinances already incorporated into <i>Regional Plan</i> , or replace with Numerical Standard as appropriate.	3
Recreation	High Quality Recreation Experience	High Quality Recreation Experience	It shall be the policy of the TRPA Governing Body in development of the <i>Regional Plan</i> to preserve and enhance the high quality recreational experience including preservation of high-quality undeveloped shorezone and other natural areas. In developing the <i>Regional Plan</i> , the staff and Governing Body shall consider provisions for additional access, where lawful and feasible, to the shorezone and high quality undeveloped areas for low density recreational uses.	Remove from Resolution 82-11, policies and ordinances already incorporated into <i>Regional Plan</i> , replace with Numerical Standard as appropriate. Consider using Pathway indicator analysis as basis for revised standard.	3
Scenic Resources	Other Areas	Other Areas	Maintain or improve the numerical rating assigned to each identified scenic resource, including individual subcomponent numerical ratings, for views from bike paths and other recreation areas open to the general public as recorded in the 1993 Lake Tahoe Basin Scenic Resource Evaluation.	Keep; define attainment evaluation criteria into standard.	N/A
Scenic Resources	Roadway and Shoreline Units	Roadway and Shoreline Units	Maintain or improve the numerical rating assigned each unit, including the scenic quality rating of the individual resources within each unit, as recorded in the Scenic Resources Inventory and shown in Tables 13-3, 13-5, 13-8 and 13-9 of the Draft Study Report. Maintain the 1982 ratings for all roadway and shoreline units as shown in Tables 13-6 and 13-7 of the Draft Study Report. Restore scenic quality in roadway units rated 15 or below and shoreline units rated 7 or below.	Keep; define attainment evaluation criteria into standard.	N/A

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Scenic Resources	Built Environment	Built Environment	It shall be the policy of the TRPA Governing Body in development of the <i>Regional Plan</i> , in cooperation with local jurisdictions, to insure the height, bulk, texture, form, materials, colors, lighting, signing and other design elements of new, remodeled and redeveloped buildings be compatible with the natural, scenic, and recreational values of the region.	Remove from Resolution 82-11 as policies, ordinances and design standard have already been incorporated into <i>Regional Plan</i> to improve and protect scenic quality within the built environment.	2
Soil Conservation	Impervious Cover	Bailey land Coverage Coefficients	Impervious cover shall comply with the <u>Land-Capability Classification of the Lake Tahoe Basin, California-Nevada, A Guide For Planning</u> , Bailey, 1974.	Currently listed as a "Management" Standard; Revise to clarify standard is Numerical Standard. Update to reflect best available science.	3
Soil Conservation	Stream Environment Zone	Stream Restoration	Preserve existing naturally functioning SEZ lands in their natural hydrologic condition, restore all disturbed SEZ lands in undeveloped, un-subdivided lands, and restore 25 percent of the SEZ lands that have been identified as disturbed, developed or subdivided, to attain a 5 percent total increase in the area of naturally functioning SEZ lands.	Maintain restoration goal (1,100 acres) as an element of the EIP (not Resolution 82-11). However, need to more specifically map where restoration is needed and why. Clarify standard to eliminate any confusion and/or preferably replace to reflect numerical condition Standard (e.g., use bioassessment scores or California Rapid Assessment Methodology instead)	3
Vegetation Preservation	Common Vegetation	Management Practices	It shall be a policy of the TRPA Governing Board that a nondegradation standard shall permit appropriate management practices.	Remove from Resolution 82-11, policies and ordinances have already been incorporated into the <i>Regional Plan</i> to ensure the appropriate management practices are used.	2

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Vegetation Preservation	Common Vegetation	Vegetation Pattern	Pattern - Provide for the proper juxtaposition of vegetation communities and age classes by: 1) Limiting acreage size of new forest openings to no more than eight acres. 2) Adjacent openings shall not be of the same relative age class or successional stage to avoid uniformity in stand composition and age.	Remove from Resolution 82-11, policies and ordinances have already been incorporated into <i>Regional Plan</i> to guide forest management prescriptions.	2

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Vegetation Preservation	Common Vegetation	Vegetation Diversity	<p>Increase plant and structural diversity of forest communities through appropriate management practices as measured by diversity indices of species richness, relative abundance, and pattern. Maintain the existing species richness of the Basin by providing for the perpetuation of the following plant associations: 1) Yellow Pine Forest: Jeffrey pine, White fir, Incense cedar, Sugar pine, 2) Red Fir Forest: Red fir, Jeffrey pine, Lodgepole pine, Western white pine, Mountain hemlock, Western juniper. 3) Subalpine Forest: Whitebark pine, Mountain hemlock, Mountain mahogany. 4) Shrub Association: Greenleaf and Pinemat manzanita, Tobacco brush, Sierra chinquapin, Huckleberry oak, Mountain whitethorn. 5) Sagebrush Scrub Vegetation: Basin sagebrush, Bitterbrush, Douglas chaenactis. 6) Deciduous Riparian: Quaking aspen, Mountain alder, Black cotton-wood, Willow. 7) Meadow Associations (Wet and Dry Meadow): Mountain squirrel tail, Alpine gentian, Whorled penstemon, Asters, Fescues, Mountain brome, Corn lilies, Mountain bentgrass, Hairgrass, Marsh marigold, Elephant heads, Tinker's penney, Mountain Timothy, Sedges, Rushes, Buttercups. 8) Wetland Associations (Marsh Vegetation): Pond lilies, Buckbean, Mare's tail, Pondweed, Common bladderwort, Bottle sedge, Common spikerush. 9) Cushion Plant Association (Alpine Scrub): Alpine phlox, Dwarf ragwort, Draba.</p>	Replace with vegetation standards identified in Pathway indicator project.	3

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Vegetation Preservation	Common Vegetation	Land Capability to Support Native Vegetation	Native vegetation shall be maintained at a maximum level to be consistent with the limits defined in the <u>Land Capability Classification of the Lake Tahoe Basin, California-Nevada, A Guide For Planning</u> , Bailey, 1974, for allowable impervious cover and permanent site disturbance.	Policies and ordinance have already been adopted in <i>Regional Plan</i> . Replace with standards for vegetation identified in Pathway Planning Process.	3

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Vegetation Preservation	Common Vegetation	Late Seral/Old Growth	<p>Attain and maintain a minimum percentage of 55% by area of forested lands within the Tahoe Region in a late seral or old growth condition, and distributed across elevation zones. To achieve the 55%, the elevation zones shall contribute as follows: 1) The Subalpine zone (greater than 8,500 feet elevation) will contribute 5% (7,600 acres) of the forested lands; 2) The Upper Montane zone (between 7,000 and 8,500 feet elevation) will contribute 30% (45,900 acres) of forested lands; 3) The Montane zone (lower than 7,000 feet elevation) will contribute 20% (30,600 acres) of forested lands. Forested lands within TRPA designated urban areas are excluded in the calculation for threshold attainment. Areas of the montane zone within 1,250 feet of urban areas may be included in the calculation for threshold attainment if the area is actively being managed for late seral and old growth conditions and has been mapped by TRPA. A maximum value of 40% of the lands within 1,250 feet of urban areas may be included in the calculation. Because of these restrictions the following percentage of each elevation zone must be attained to achieve this threshold: 1) 61% of the Subalpine zone must be in a late seral or old growth condition; 2) 60% of the Upper Montane zone must be in a late seral or old growth condition; 3) 48% of the Montane zone must be in a late seral or old growth condition.</p>	<p>Revise to recognize issues associated with subalpine zone; revise targets to more meaningfully represent different desired old forest conditions.</p>	3

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Vegetation Preservation	Common Vegetation	Relative Abundance	Relative Abundance - of the total amount of undisturbed vegetation in the Tahoe Basin; 1) Maintain at least four percent meadow and wetland vegetation. 2) Maintain at least four percent deciduous riparian vegetation. 3) Maintain no more than 25 percent dominant shrub association vegetation. 4) Maintain 15-25 percent of the Yellow Pine Forest in seral stages other than mature. 5) Maintain 15-25 percent of the Red Fir Forest in seral stages other than mature.	Replace with standards for vegetation identified in Pathway Planning Process.	3
Vegetation Preservation	Common Vegetation	Stream Environment Zone	A nondegradation standard to preserve plant communities shall apply to native deciduous trees, wetlands, and meadows while providing for opportunities to increase the acreage of such riparian associations to be consistent with the SEZ threshold.	Remove from Resolution 82-11, policies and ordinances already incorporated into <i>Regional Plan</i> to protect and restore SEZ; combine with other indicators of SEZ condition (e.g., CRAM or Bioassessment).	3
Vegetation Preservation	Sensitive Plants	<i>Arabis rigidissima v. demota</i>	Maintain a minimum number of population sites for each of five sensitive plant species: 7 population sites - <i>Arabis rigidissima v. demota</i>	Revise to clarify intent of standard; consider recommendations from Pathway and findings from this evaluation.	3
Vegetation Preservation	Sensitive Plants	<i>Draba asterophora v. asterophora</i>	Maintain a minimum number of population sites for each of five sensitive plant species: 2 population sites - <i>Draba asterophora v. macrocarpa</i>	Revise to clarify intent of standard; consider recommendations from Pathway and findings from this evaluation.	3
Vegetation Preservation	Sensitive Plants	<i>Draba asterophora v. macrocarpa</i>	Maintain a minimum number of population sites for each of five sensitive plant species: 5 population sites - <i>Draba asterophora v. asterophora</i>	Revise to clarify intent of standard; consider recommendations from Pathway and findings from this evaluation.	3

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Vegetation Preservation	Sensitive Plants	<i>Lewisia pygmaea longipetala</i>	Maintain a minimum number of population sites for each of five sensitive plant species: 2 population sites - <i>Lewisia pygmaea longipetala</i>	Revise to clarify intent of standard; consider recommendations from Pathway and findings from this evaluation.	3
Vegetation Preservation	Sensitive Plants	<i>Rorippa subumbellata</i>	Maintain a minimum number of population sites for each of five sensitive plant species: 26 population sites - <i>Rorippa subumbellata</i>	Revise to clarify intent of standard; consider recommendations from Pathway and findings from this evaluation.	3
Vegetation Preservation	Uncommon Plant Communities	Deepwater plants of Lake Tahoe	Provide for the nondegradation of the natural qualities of any plant community that is uncommon to the Basin or of exceptional scientific, ecological, or scenic value. Deepwater plants of Lake Tahoe	Need an improved understanding of the community's life history characteristics and how TRPA actions can affect associated indicators.	3
Vegetation Preservation	Uncommon Plant Communities	Freel Peak Cushion Plant community	Provide for the nondegradation of the natural qualities of any plant community that is uncommon to the Basin or of exceptional scientific, ecological, or scenic value. Freel Peak Cushion Plant community	Currently listed Resolution 82-11 as a numerical standard without any numeric standards. Revise to clarify what conditions we are striving to achieve for the community.	3
Vegetation Preservation	Uncommon Plant Communities	Grass Lake (sphagnum bog)	Provide for the nondegradation of the natural qualities of any plant community that is uncommon to the Basin or of exceptional scientific, ecological, or scenic value. Grass Lake (sphagnum bog)	Currently listed Resolution 82-11 as a numerical standard without any numeric standards. Revise to clarify what conditions we are striving to achieve for the community.	3

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Vegetation Preservation	Uncommon Plant Communities	Hell Hole	Provide for the nondegradation of the natural qualities of any plant community that is uncommon to the Basin or of exceptional scientific, ecological, or scenic value. Hell Hole	Currently listed Resolution 82-11 as a numerical standard without any numeric standards. Revise to clarify what conditions we are striving to achieve for the community.	3
Vegetation Preservation	Uncommon Plant Communities	Osgood swamp	Provide for the nondegradation of the natural qualities of any plant community that is uncommon to the Basin or of exceptional scientific, ecological, or scenic value. Osgood swamp	Currently listed Resolution 82-11 as a numerical standard without any numeric standards. Revise to clarify what conditions we are striving to achieve for the community.	3
Vegetation Preservation	Uncommon Plant Communities	Pope Marsh	Provide for the nondegradation of the natural qualities of any plant community that is uncommon to the Basin or of exceptional scientific, ecological, or scenic value. Pope Marsh	Currently listed Resolution 82-11 as a numerical standard without any numeric standards. Revise to clarify what conditions we are striving to achieve for the community.	3
Vegetation Preservation	Uncommon Plant Communities	Taylor Creek Marsh	Provide for the nondegradation of the natural qualities of any plant community that is uncommon to the Basin or of exceptional scientific, ecological, or scenic value. Taylor Creek Marsh	Currently listed Resolution 82-11 as a numerical standard without any numeric standards. Revise to clarify what conditions we are striving to achieve for the community.	3
Vegetation Preservation	Uncommon Plant Communities	Upper Truckee Marsh	Provide for the nondegradation of the natural qualities of any plant community that is uncommon to the Basin or of exceptional scientific, ecological, or scenic value. Upper Truckee Marsh	Currently listed Resolution 82-11 as a numerical standard without any numeric standards. Revise to clarify what conditions we are striving to achieve for the community.	3

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Water Quality	Aquatic Invasive Species	Control and Prevent	Prevent the introduction of new aquatic invasive species into the region's waters and reduce the abundance and distribution of known aquatic invasive species. Abate harmful ecological, economic, social and public health impacts resulting from aquatic invasive species.	Currently proposed as a management standard. Should work toward adopting a numerical standard in the future, perhaps as an element of nearshore standards proposal.	1
Water Quality	Pelagic Lake Tahoe	Winter Average Secchi Disk	Achieve the following long-term water quality standard: Winter (December - March) mean Secchi disk transparency: 33.4m.	Revise to reflect State Annual Average standard	1
Water Quality	Groundwater	Discharge to Ground Water	Surface runoff infiltration into the groundwater shall comply with the uniform Regional Runoff Quality Guidelines as set forth in Table 4-12 of the Draft Environmental Threshold Carrying Capacity Study Report, May, 1982. Where there is a direct and immediate hydraulic connection between ground and surface waters, discharges to groundwater shall meet the guidelines for surface discharges, and the Uniform Regional Runoff Quality Guide lines shall be amended accordingly.	Remove from 82-11, discharge standards have already been adopted in the <i>Regional Plan</i> . Verify codified discharges standards are consistent with TMDL discharge standards. Consider replacing standard with appropriate TMDL source category pollutant load reduction targets.	2

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Water Quality	Littoral Lake Tahoe	Nutrient Loading	Reduce dissolved inorganic nitrogen loads from 1) surface runoff by approximately 50 percent, from 2) groundwater approximately 30 percent, and from 3) atmospheric sources approximately 20 percent of the 1973-81 annual average. This threshold relies on predicted reductions in pollutant loadings from out-of-basin sources as part of the total pollutant loading reduction necessary to attain environmental standards, even though the Agency has no direct control over out of Basin sources. The cooperation of the states of California and Nevada will be required to control sources of air pollution, which contribute nitrogen loadings to the Lake Tahoe Region.	Revise standards to reflect contemporary science related to the nearshore.	2
Water Quality	Littoral Lake Tahoe	DIN Loading	Reduce dissolved inorganic nitrogen loading to Lake Tahoe from all sources by 25 percent of the 1973-81 annual average.	Revise standards to reflect contemporary science related to the nearshore.	2
Water Quality	Littoral Lake Tahoe	Turbidity	Decrease sediment load as required to attain 1) turbidity values not to exceed three NTU, 2) turbidity shall not exceed one NTU in shallow waters of the Lake not directly influenced by stream discharges, 3) reduce the loading of dissolved inorganic nitrogen, dissolved phosphorus, iron, and other algal nutrients from all sources to meet the 1967-71 mean values for phytoplankton primary productivity and periphyton biomass in the littoral zone.	Replace with recommended indicators and standards resulting from nearshore indicators research (DRI, UC Davis, UNR).	2

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Water Quality	Pelagic Lake Tahoe	Pelagic Lake Tahoe Loading	Reduce the loading of dissolved phosphorus, iron, and other algal nutrients from all sources as required to achieve ambient standards for primary productivity and transparency. Reduce dissolved inorganic nitrogen loads from 1) surface runoff by approximately 50 percent, from 2) groundwater approximately 30 percent, and from 3) atmospheric sources approximately 20 percent of the 1973-81 annual average. This threshold relies on predicted reductions in pollutant loadings from out-of-basin sources as part of the total pollutant loading reduction necessary to attain environmental standards, even though the Agency has no direct control over out-of-basin sources. The cooperation of the states of California and Nevada will be required to control sources of air pollution, which contribute nitrogen loadings to the Lake Tahoe Region.	Revise standards to reflect contemporary science related to pollutant loading and pelagic Lake Tahoe.	2
Water Quality	Pelagic Lake Tahoe	Nutrient Loading Policy	This Threshold Standard is currently being exceeded and will likely continue to be exceeded until some time after full implementation of the loading reductions prescribed by the thresholds.	This is in Resolution, 82-11 and in effect is a statement that recognizes that standards related to Lake Tahoe will take time to achieve. Consider removing from 82-11.	2
Water Quality	Pelagic Lake Tahoe	DIN Loading	Reduce dissolved inorganic nitrogen (N) loading from all sources by 25 percent of the 1973-81 annual average.	Revise standards to reflect contemporary science related to pollutant loading and pelagic Lake Tahoe.	2
Water Quality	Pelagic Lake Tahoe	Pelagic Lake Tahoe Loading	Reduce dissolved inorganic nitrogen (N) loading from all sources by 25 percent of the 1973-81 annual average.	Revise standards to reflect contemporary science related to pollutant loading and pelagic Lake Tahoe.	2

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Water Quality	Surface Runoff	Surface Runoff	Achieve a 1) 90 th percentile concentration value for dissolved inorganic nitrogen of 0.5 mg/l, for 2) dissolved phosphorus of 0.1 mg/l, and for 3) dissolved iron of 0.5 mg/l in surface runoff directly discharged to a surface water body in the Basin. Achieve a 4) 90 percentile concentration value for suspended sediment of 250 mg/l.	Remove from 82-11, discharge standards have already been adopted in the <i>Regional Plan</i> . Verify codified discharges standards are consistent with TMDL discharge standards. Consider replacing standard with appropriate TMDL source category pollutant load reduction targets.	2
Water Quality	Surface Runoff	Surface Runoff	Reduce total annual nutrient and suspended sediment loads as necessary to achieve loading thresholds for tributaries and littoral and pelagic Lake Tahoe.	Revise standards to reflect contemporary science related to pollutant loading.	2
Water Quality	Water Clarity	Tributaries	Reduce total annual nutrient and suspended sediment load to achieve loading thresholds for littoral and pelagic Lake Tahoe.	Revise standards to reflect contemporary science related to pollutant loading and pelagic Lake Tahoe.	2
Water Quality	Other Lakes	State WQ Concentrations/Standards	Attain existing water quality standards. (Note: there are at least 14 state standards associated with other lakes, specifically Fallen Leaf Lake)	Omit from resolution 82-11 with understanding that TRPA needs to meet applicable State standards for "other lakes". Encourage partner state agencies to monitor and report conditions relative to adopted state standards.	3

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Water Quality	Pelagic Lake Tahoe	Primary Productivity	Achieve the following long-term water quality standard: 1) Annual mean phytoplankton primary productivity: 52gmC/m ² /yr	Evaluate basis of standard and whether the Region is reasonably capable of attaining adopted standard. Adjust as appropriate or consider alternative standard related to Lake Tahoe's trophic status (i.e., ultraoligotrophic). Use trophic state index as approach to measure trophic status – maintain trophic status as “ultraoligotrophic”	3
Water Quality	Water Clarity	Tributaries	Attain applicable state standards for concentrations of 1) dissolved inorganic nitrogen, 2) dissolved phosphorus, and 3) dissolved iron. 4) Attain a 90 th percentile value for suspended sediment concentration of 60 mg/l.	Review basis for adopted state standards and determine if they are reasonably attainable for each monitored stream. Omit from Resolution 82-11 with the understanding that TRPA needs to meet applicable state sediment and nutrient concentration standards. Encourage partner state agencies to monitoring and report conditions relative to adopted state standards.	3

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Wildlife	Special Interest Species	Bald Eagle (Nesting)	Provide a minimum number of population sites and disturbance zones for the following species: Bald Eagle (Nesting) - 1 population site - 0.5 mile radius	Revise to clarify definitions, attainment criteria, and to better reflect Pathway indicator findings. Note: all management standards (i.e., disturbance zones) for SIS have already been incorporated into the <i>Regional Plan</i> .	2
Wildlife	Special Interest Species	Bald Eagle (Winter)	Provide a minimum number of population sites and disturbance zones for the following species: Bald Eagle (winter) - 2 population sites - Mapped Areas	Revise to clarify definitions, attainment criteria, and to better reflect Pathway indicator findings. Note: all management standards (i.e., disturbance zones) for SIS have already been incorporated into the <i>Regional Plan</i> .	2
Wildlife	Special Interest Species	Deer	Provide a minimum number of population sites and disturbance zones for the following species: Deer - Mapped areas	Revise to clarify definitions, attainment criteria, and to better reflect Pathway indicator findings. Note: all management standards (i.e., disturbance zones) for SIS have already been incorporated into the <i>Regional Plan</i> .	2

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Wildlife	Special Interest Species	Golden Eagle	Provide a minimum number of population sites and disturbance zones for the following species: Golden Eagle - 4 population site - 0.25 mile radius	Revise to clarify definitions, attainment criteria, and to better reflect Pathway indicator findings. Note: all management standards (i.e., disturbance zones) for SIS have already been incorporated into the <i>Regional Plan</i> .	2
Wildlife	Special Interest Species	Goshawk	Provide a minimum number of population sites and disturbance zones for the following species: Goshawk - 12 population sites - 0.5 mile radius	Revise to clarify definitions, attainment criteria, and to better reflect Pathway indicator findings. Note: all management standards (i.e., disturbance zones) for SIS have already been incorporated into the <i>Regional Plan</i> .	2
Wildlife	Special Interest Species	Osprey	Provide a minimum number of population sites and disturbance zones for the following species: Osprey - 4 population sites - 0.25 mile radius	Revise to clarify definitions, attainment criteria, and to better reflect Pathway indicator findings. Note: all management standards (i.e., disturbance zones) for SIS have already been incorporated into the <i>Regional Plan</i> .	2

Threshold Category	Indicator Reporting Category	Standard	Currently Adopted Threshold Standard (Resolution 82-11, as amended)	Proposed Action Needed	Priority
Wildlife	Special Interest Species	Peregrine	Provide a minimum number of population sites and disturbance zones for the following species: Peregrine Falcon - 2 population site - 0.5 mile radius	Revise to clarify definitions, attainment criteria, and to better reflect Pathway indicator findings. Note: all management standards (i.e., disturbance zones) for SIS have already been incorporated into the <i>Regional Plan</i> .	2
Wildlife	Special Interest Species	Waterfowl	Provide a minimum number of population sites and disturbance zones for the following species: Waterfowl - 18 population sites - mapped	Revise to clarify definitions, attainment criteria, and to better reflect Pathway indicator findings. Note: all management standards for SIS have already been incorporated into the <i>Regional Plan</i> .	2
Wildlife	Habitats of Special Significance	Riparian Habitat	A nondegradation standard shall apply to significant wildlife habitat consisting of deciduous trees, wetlands, and meadows while providing for opportunities to increase the acreage of such riparian associations.	Remove from Resolution 82-11; policies and ordinances have already been incorporated into <i>Regional Plan</i> . Alternatively replace with numeric wildlife occupancy standard or equivalent.	3