

## **VIII. REFERENCES**

Aad, Maya P. Abi. 2009. Modeling Techniques and Local Strategies of Green Infrastructure Capitals to Control Urban Stormwater Runoff and Combined Sewer Overflows. Master's Degree Thesis. Department of Civil and Environmental Engineering at the College of Engineering, University of Cincinnati. February, 2009.

Anderson, M. Kat, 2005. Tending the Wild. University of California press, Berkeley, Ca.

Booth, Derek. 2005. Challenges and Prospects for Restoring Urban Streams: a Perspective from the Pacific Northwest of North America. Journal of the North American Benthological Society 24(3): 724-737.

Brossard, Randall, and Hoshovsky, 2000. Invasive Plants of California's Wildlands. UC California Press

California Department of Water Resources. Orinda Fire Station. Precipitation Gage E40 7661 00. 1973 to Present. Contra Costa Fire. Hourly Precipitation.

California Department of Water Resources. Upper San Leandro Filter Plant. Precipitation Gage E40 9185 00. 1948 to Present. EBMUD. Hourly Precipitation 1948 to 1989, Daily Precipitation 1989 to Present.

California Department of Water Resources. Piedmont Fire Station. Precipitation Gage E40 6856 70. 1972 to 1989. Alameda County. Hourly Precipitation.

California Department of Water Resources. Oakland Airport. Precipitation Gage E40 6335 00. 1940 to 1985. HPD. Hourly Precipitation.

Center for Ecosystem Management and Restoration (CEMAR) 2007. San Francisco Estuary Watersheds Evaluation: Identifying Promising Locations for Steelhead Restoration in Tributaries of the San Francisco Estuary.

Chanse, V. 2003. Along Sausal Creek: an assessment of vegetation, habitat, and morphology of an adopted urban creek, University of California at Berkeley Paper submitted for LA227: River Restoration Professor G. Matthias Kondolf, December 10, 2003.

Cleugh, E. 2002. Unpublished Report. CDFG.

Coe, J.A., Godt, J.W., and Wilson, R.C., 1998, Distribution of debris flows in Alameda County, California triggered by 1998 El Niño rainstorms: a repeat of January 1982, EOS, v. 79, No. 45.

Collins, B. and T. Dunne. 1990. Fluvial Geomorphology and River Gravel Mining: A Guide for Planners. California Division of Mines and Geology. Special Publication No 98.

Evanosky, Dennis. July 21, 2006. Redwoods Clothe the Oakland Hills. Hills Newspapers/East Bay Daily News, Oakland, Ca.

Evanosky, Dennis. 2007. Oakland's Laurel District. Stellar Media Group, Oakland, Ca.

Federal Emergency Management Agency 1990. Flood Insurance Study for Contra Costa County, California, City of Oakland, Federal Emergency Management Agency, Community Number 065048, Revised August 16, 1982.

Fischenich, C. 2001. Stability thresholds for stream restoration materials. EMRPP Technical Notes Collection (ERDC TN-EMRRP-SR-29), U.S. Army Engineer Research and Development Center, Vicksburg, MS.

Friends of Sausal Creek. 1998-2006. Water Quality Data.

Friends of Sausal Creek. 1998-2006. Aquatic Insect Sampling Data.

Friends of Sausal Creek. No date. Description of Monitoring Program.

Friends of Sausal Creek. No date. Invasive Plant coverages on Public lands, Sausal Creek watershed. Compiled by Karen Paulsell.

Friends of Sausal Creek. 2009. Description of Sightings of Rainbow trout in Sausal Creek watershed. Compiled by Karen Paulsell.

Friends of Sausal Creek. 2009. List of invasive plants recorded on public lands, Sausal Creek watershed. Compiled by Karen Paulsell.

Friends of Sausal Creek. 2009. List of native plants recorded on public lands, Sausal Creek watershed. Compiled by Karen Paulsell.

Gironás, Jorge, L. A. Roesner, J. Davis. 2009. Storm Water Management Model Applications Manual. Department of Civil and Environmental Engineering, Colorado State University in partnership with National Risk Management Research Laboratory, United States Environmental Protection Agency. Cincinnati, OH. EPA/600/R-09/077.

Grantham, T. 2006. Monitoring channel change at the Sausal Creek Restoration Project, Oakland, California, University of California Landscape Architecture 222 Professor G. Mathias Kondolf Spring 2006.

Graymer, R.W. 2000. Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California. Pamphlet to accompany MISCELLANEOUS FIELD STUDIES MF-2342 Version 1.0. U.S. Department of the Interior. U.S. Geological Survey

Hagar, J., and F. Demgen. 1998. Aquatic resource inventory of Oakland streams. City of Oakland, Oakland, CA.

Huber, W.C., Heaney, J.P., and Cunningham, B.A., Stormwater management Model (SWMM), EPA Report EPA/600/3-85-077, Environmental Protection Agency, Athens, GA, September 1985.

Hydrologic Systems. 2008. Sausal Creek Watershed Analysis Hydrologic and Hydraulic Assessment. Draft Technical Memo prepared for Laurel Marcus and Associates and The Friends of Sausal Creek.

- Lacan, Igor et al. 1999. Hydrological and Ecological Assessment of Sausal Creek.
- Leidy, R.A., G.S. Becker, B.N. Harvey. 2005. Historical distribution and current status of steelhead/rainbow trout (*Oncorhynchus mykiss*) in streams of the San Francisco Estuary, California. Center for Ecosystem Management and Restoration, Oakland, CA.
- Lowe, Martha. 1998. Changes in peak discharges, sediment load, and channel morphology of Sausal Creek, Oakland, California: 1700-1998 [unpublished manuscript]. 26p. Located at: University of California, Berkeley, Water Resources Center Archives, MS 96/2 no.58.
- Lowe, Martha. 2000. The upper Sausal Creek Watershed historical and Contemporary Ecology, Watershed Assessment and Recommendations for Ecosystem Restoration and Management. Master Thesis, Sonoma State University.
- Mailman, Erika. 2004. Oakland Hills. Arcadia Press, San Francisco, Ca.
- Mailman, Erika, Ed. 2005. Oakland's Neighborhoods. Mailman Press, Oakland.
- Margolin, Malcolm. 2003. The Ohlone Way: Indian Life in the San Francisco–Monterey Bay Area. Heyday Books, Berkeley, Ca.
- McCuen 1989. Hydrologic Analysis and Design. Prentice Hall, Inc., Englewood Cliffs, New Jersey.
- Mount, Jeffrey F. 1995. California Rivers and Streams. University of California Press. Berkeley.
- Moyle, Peter. 1976. Inland Fishes of California. University of California Press. Berkeley, CA.
- Oakland Department of Public Works 2004. LIDAR Five-Foot Digital Elevation Map, Provided by the Oakland Department of Public Works, Oakland, California.
- Oakland Department of Public Works 2004. City of Oakland Parcel Map - GIS Coverage, Provided by the Oakland Department of Public Works, Oakland, California.
- Oakland Department of Public Works 2007. City Wide Storm Drain Utility Plans, Provided by the Oakland Department of Public Works, Oakland, California.
- Oakland Fire Department. Shepherd Canyon Fire Station. Unknown to Present.
- Oakland Fire Department. Daily Precipitation.
- Pike, Richard, Russell Graymer, Sebastian Roberts 2001. Map and map database of susceptibility to slope failure by sliding and earthflow in the Oakland Area, MF-2385, California, US Geological Survey, 2001.
- Purcell, Alison. 2004. A Long-Term Post-Project Evaluation of an Urban Stream Restoration Project, Baxter Creek, El Cerrito, Ca. Restoration of Rivers and Streams. Water Resources Center Archives. University of California, Berkeley.

Purcell, A. H. Friedrich, C., and V. H. Resh. 2002. An Assessment of a Small Urban Stream Restoration Project in Northern California. *Restoration Ecology* 10: 685-694.

Rossman, Lewis A. 2009. Storm Water Management Model User's Manual, Version 5.0. National Risk Management Research Laboratory, United States Environmental Protection Agency. Cincinnati, OH. EPA/600/R-05/040.

Soil Conservation Service 1981. Soil Survey of Alameda County, California, United States Department of Agriculture, Soil Conservation Service, in cooperation with University of California. Agricultural Experiment Station, August 1978.

Schumm, S.A., M. Paul Mosley, William E. Weaver. 1987. *Experimental Fluvial Geomorphology*. John Wiley & Sons, Inc.

Surface Water Ambient Monitoring Program (SWAMP), San Francisco Bay Region. 2008. Water Quality Monitoring and Bioassessment in Selected San Francisco Bay Region Watersheds in 2004-2006. San Francisco Bay Regional Water Quality Control Board, Oakland, CA.

U.S. Department of Agriculture 2002. Revised Universal Soil Loss Equation Version 2 (RUSLE2), USDA-Agricultural Research Service, Washington, D.C., December 31, 2002.

U.S. Army Corps of Engineers 2000. Hydrologic Modeling System HEC-HMS Users Manual Version 2.1, US Army Corps of Engineers, Hydrologic Engineering Center. March 2000

U.S. Army Corps of Engineers 2001. HEC-RAS River Analysis System Hydraulic Reference Manual 2001. Version 3.0, U.S. Army Corps of Engineers, Hydrologic Engineering Center, Davis, California.

U. S. Army Corps of Engineers (USACE) Hydrologic Engineering Center. 2008. HEC-RAS River Analysis System User's Manual Version 4.0.

U.S. Geological Survey 1982. Guidelines for Determining Flood Flow Frequency. Hydrology Subcommittee Bulletin #17B, Interagency Advisory Committee on Water Data, Revised March 1982 .

United States Geological Survey (USGS). 1990. Guide for Selecting Manning's Roughness Coefficients for Natural Channels and Flood Plains. Water Supply Paper 2339. Available at <http://www.fhwa.dot.gov/BRIDGE/wsp2339.pdf>.

U.S. Geological Survey 2000. Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, US Geologic Survey, Miscellaneous Field Studies MF-2342, California 2000.

University of California at Berkeley – Office of Environment, Health and Safety. 2001 to Present. University of California Meteorological Weather Station. 15 Minute Weather Data including precipitation.

Walsh, Christopher, Tim Fletcher, and Anthony Ladson. 2005. Stream Restoration in Urban Catchments through Redesigning Stormwater Systems: Looking to the Catchment to save the Stream. *Journal of the North American Benthological Society* 24(3): 690-705.

William Lettis and Associates Inc. 2000. An Assessment of Trails, Watercourses, Soil and Redwood Forest Health in Joaquin Miller Park, Oakland, Ca. City of Oakland.

XP Software 2008. XPSWMM - SWMM Stormwater and Wastewater Decision Support System, XP Software Inc. 700 NE Multnomah, Suite 230 Portland, OR 97232, Version 10.6 March 2008.

### **Personal Communications**

Leroy Griffin, City of Oakland. 1/26/2010

Allan Law, City of Oakland. 1/6/2010

### **Websites**

California Department of Forestry and Fire Protection. GIS Data. Website accessed 1999, 2010.  
<http://frap.cdf.ca.gov/data/frappgisdata/select.asp>

California Department of Water Resources. California Data Exchange Center. Website accessed Nov. 2009. <http://cdec.water.ca.gov>

California Environmental Resources Evaluation System. Watershed Information Technical System. Website accessed 2004, 2010. <http://ceres.ca.gov>.

California Regional Water Quality Control Board San Francisco Bay Region Municipal Regional Stormwater NPDES Permit. Website accessed Jan. 2010.  
[http://www.waterboards.ca.gov/sanfranciscobay/board\\_decisions/adopted\\_orders/2009/R2-2009-0074.pdf](http://www.waterboards.ca.gov/sanfranciscobay/board_decisions/adopted_orders/2009/R2-2009-0074.pdf)

California Stormwater Quality Association. Stormwater Best Management Practice (BMP) Handbooks. Website accessed Jan. 2010. <http://www.cabmphandbooks.com/>

Center for Watershed Protection. Website accessed Nov. 2009. <http://www.cwp.org/>

City of Oakland General Plan and Zoning Map. Website accessed Jan. 2010.  
[http://www.oaklandnet.com/government/ceda/revised/planningzoning/ZoningSection/GP\\_Zoning\\_Map\\_20090821\\_Addendum\\_Asof20091006.pdf](http://www.oaklandnet.com/government/ceda/revised/planningzoning/ZoningSection/GP_Zoning_Map_20090821_Addendum_Asof20091006.pdf).

City of Oakland Housing Element 2007-2014, revised public review draft June 2009. Website accessed Jan. 2010. <http://www.oaklandnet.com/government/hcd/policy/docs/he09-ch4.pdf>

City of Oakland Wildfire Prevention District. Website accessed Jan. 2010.  
<http://www.oaklandnet.com/wildfireprevention/index.asp>

Information Center for the Environment. Website accessed Dec. 2010. <http://ice.ucdavis.edu>.

Interlocking Concrete Pavement Institute. Permeable Pavements. Website accessed Jan. 2010.  
[http://icpi.org/design/permeable\\_pavers.cfm](http://icpi.org/design/permeable_pavers.cfm)

Low Impact Development (LID) Urban Design Tools Website. Website accessed Jan. 2010.  
<http://www.lid-stormwater.net/>

Oakland Creek Ordinance. Website accessed Jan. 2010. <http://www.oaklandpw.com/Page159.aspx>

Rain Gardens of West Michigan. Website accessed Jan. 2010. <http://www.raingardens.org/Index.php>

Stormwater Manager's Resource Center (SMRC). Stormwater Management Fact Sheet: Bioretention. Website accessed Jan. 2010.  
[http://www.stormwatercenter.net/Assorted%20Fact%20Sheets/Tool6\\_Stormwater\\_Practices/Filtering%20Practice/Bioretention.htm](http://www.stormwatercenter.net/Assorted%20Fact%20Sheets/Tool6_Stormwater_Practices/Filtering%20Practice/Bioretention.htm)

The Low Impact Development Center, Inc. Website accessed Jan. 2010.  
<http://www.lowimpactdevelopment.org>

University of Rhode Island. Healthy Landscapes. Website accessed Jan. 2010.  
<http://www.uri.edu/ce/healthylandscapes/index.html>

U.S. Environmental Protection Agency. National Pollutant Discharge Elimination System. Urban BMP Performance Tool. Website accessed Dec. 2009.  
<http://cfpub.epa.gov/npdes/stormwater/urbanbmp/bmpeffectiveness.cfm>

U.S. Environmental Protection Agency. Polluted Runoff (Nonpoint Source Pollution). Low Impact Development (LID). Website accessed Jan. 2010. <http://epa.gov/nps/lid/>

Western Regional Climate Center. Western U.S. Precipitation Frequency Maps. Website accessed 2004, 2010. <http://www.wrcc.dri.edu/pcpnfreq.html>.

### **Data Sources for Sausal Maps**

Improvement Projects:

1. NewFields. 2009. Sausal Improvement Sites, Sausal\_Improvement\_Sites.shp
2. USGS. 2009. Streams- delineated streams.shp (modified by Lisa Lackey, using contour lines of 7.5 Topos)
3. USGS. 2009. Highways- USGS DLG data
4. Hydrologic Systems, Inc. 2009. Sausal Watershed Boundary, Sausal\_Watershed\_Boundary.shp

## Elevation

1. USGS. 2009. USGS National Elevation Dataset (NED), 1/3 arc second (roughly 10 meter) resolution
2. Hydrologic Systems, Inc. 2009. Hillshade

## Precipitation Gages

1. Hydrologic Systems, Inc. 2009. Precipitation stations used to establish the hydrologic setting, Precipitation Gages.shp
1. NewFields. 2009. Precipitation stations used in calibrating the model PrecipStations.shp
2. Hydrologic Systems, Inc. Sausal Watershed Boundary, Sausal\_Watershed\_Boundary.shp

## Joaquin Miller Trails

1. Karen Paulsell. 2009. Joaquin Miller Trails, Trails\_Oakland.shp
2. Karen Paulsell. 2009. Joaquin Miller Park Boundary, Parks.shp
3. USGS. 2009 Streams, delineated\_streams.shp (modified by Lisa Lackey, using contour lines of 7.5 Topos)

## Invaders

1. Karen Paulsell. 2009. Invasive plants, veg\_understory.shp and veg\_overstory.shp
2. USGS. 2009. Highways- USGS DLG data
3. USGS. 2009 Streams, delineated\_streams.shp (modified by Lisa Lackey, using contour lines of 7.5 Topos)
4. Karen Paulsell. 2009. Park Boundaries, Parks.shp

## Geology

1. Graymer, R.W. 2000. Geology Strike Points, Contact Lines, Type Polygons and annotation from USGS, oake\_geol coverage- Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California. [http://www-laep.ced.berkeley.edu/classes/gisc/raphael/em\\_respo/layers/geoldesrci.pdf](http://www-laep.ced.berkeley.edu/classes/gisc/raphael/em_respo/layers/geoldesrci.pdf)
2. Hydrologic Systems, Inc. 2009. Sausal Watershed Boundary, Sausal\_Watershed\_Boundary.shp

## Geology Regional

1. Graymer, R.W. 2000. Geology- from USGS mf2342 oakdb oak\_geol.shp- "Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties,

California. [http://www-laep.ced.berkeley.edu/classes/gisc/raphael/em\\_respo/layers/geoldesrci.pdf](http://www-laep.ced.berkeley.edu/classes/gisc/raphael/em_respo/layers/geoldesrci.pdf)

2. Hydrologic Systems, Inc. 2009. Sausal Watershed Boundary, Sausal\_Watershed\_Boundary.shp

#### Sausal Outlets

1. Storm Drain Outlets, Culvert\_Outlets\_Pt in hydro.mdb geodatabase from the City of Oakland.
2. Storm Drain, StromDrainsPipes in hydro.mdb geodatabase from City of Oakland.
3. USGS. 2009 Streams, delineated\_streams.shp (modified by Lisa Lackey, using contour lines of 7.5 Topos)
4. Hydrologic Systems, Inc. 2009. Sausal Watershed Boundary, Sausal\_Watershed\_Boundary.shp
5. City of Oakland. 2009. Hillshade, created from oakdem5ft GRID the 5 ft DEM
6. California Spatial Information Library (CASIL). 2009. Mosaic of Digital Raster Graphics (DRG) scanned from USGS 7.5' topo map.

#### Sausal Sewer

1. City of Oakland. 2009. Sewer Pipe Diameter, SausalSSPipes.shp
2. USGS. 2009 Streams, delineated\_streams.shp (modified by Lisa Lackey, using contour lines of 7.5 Topos)
3. Hydrologic Systems, Inc. 2009. Sausal Watershed Boundary, Sausal\_Watershed\_Boundary.shp
4. City of Oakland. 2009. Hillshade, created from oakdem5ft GRID the 5 ft DEM
5. California Spatial Information Library (CASIL). 2009. Mosaic of Digital Raster Graphics (DRG) scanned from USGS 7.5' topo map.

#### Sausal Sub-Basins

1. Hydrologic Systems, Inc. 2009. Sub-Basins, SubBasins – 33 Basins.shp
2. Hydrologic Systems, Inc. 2009. Sausal Watershed Boundary, Sausal\_Watershed\_Boundary.shp
3. USGS. 2009. Key roads, USGS DLG data
4. USGS. 2009. Highways, USGS DLG data
5. City of Oakland. 2009. USGS. 2009. Hillshade created from oakdem5ft GRID and the USGS National Elevation Dataset (NED) 1 arc second



### Sausal Greater than 30% Slope

1. City of Oakland. 2009. Slope Greater than 30%, slope.tif created from oakdem5ft GRID
2. Hydrologic Systems, Inc. 2009. Sausal Watershed Boundary, Sausal\_Watershed\_Boundary.shp
3. USGS. 2009. Hillshade created from National Elevation Dataset (NED), 1/3 arc second
4. California Spatial Information Library (CASIL). 2009. Mosaic of Digital Raster Graphics (DRG) scanned from USGS 7.5' topo map.

### Sausal Landslide

1. Seismic Landslide Hazard, Seismic Landslide Hazard GRID- Received from Tom Burke. Assume it is from "Seismic Landslide Hazard for the Cities of Oakland and Piedmont, California", By Scott B. Miles and David K. Keefer, 2001. <http://pubs.usgs.gov/mf/2001/2379/>
2. Oakland City Boundary, Oakland\_city\_landslid.shp- from the shapefile received from Karen Paulsell, cty\_lmths.shp, and modified to look like the boundary shown in Tom Burke's report.
3. Hydrologic Systems, Inc. 2009. Sausal Watershed Boundary, Sausal\_Watershed\_Boundary.shp
4. Graymer, R.W. 2000. Water line, Oakland\_waterline.shp extracted from oak\_geol.shp- "Geologic map and map database of the Oakland metropolitan area, Alameda, Contra Costa, and San Francisco Counties, California. [http://www-laep.ced.berkeley.edu/classes/gisc/raphael/em\\_respo/layers/geoldesrci.pdf](http://www-laep.ced.berkeley.edu/classes/gisc/raphael/em_respo/layers/geoldesrci.pdf)

### Sausal Land Use

1. USGS 2001 National Land Cover Database. 2001. Land cover, landcover.tif, derived from 2000 vintage Landsat 7 Satellite imagery, 30m resolution. <http://www.mrlc.gov/nlcd.php>
2. Hydrologic Systems, Inc. 2009. Sausal Watershed Boundary, Sausal\_Watershed\_Boundary.shp
3. Hydrologic Systems, Inc. 2009. Sub-Basins, SubBasins – 33 Basins.shp
4. USGS. 2009. Key roads, USGS DLG data
5. USGS. 2009. Highways, USGS DLG data

### Sausal Monitoring Sites

1. Monitoring site, monitoring\_sites.shp- digitized from JPG, Excel files and pdf from Laurel Marcus. SWAMP sites- monitoring stations.xls. FOSC sites- FOSC water quality stations.xls, FOSC water quality monitoring stations copy.jpg, FOSC aquatic insect monitoring stations copy.jpg,

bacteria monitoring stations copy.jpg, Sausal monitoring sites with Lacan in purple.jpg, sausal monitoring sites

2. USGS. 2009. Key roads, USGS DLG data
3. USGS. 2009. Highways, USGS DLG data
4. USGS. 2009 Streams, delineated\_streams.shp (modified by Lisa Lackey, using contour lines of 7.5 Topos)
5. Hydrologic Systems, Inc. 2009. Sausal Watershed Boundary, Sausal\_Watershed\_Boundary.shp
6. Hydrologic Systems, Inc. 2009. Sub-Basins, SubBasins – 33 Basins.shp
7. City of Oakland. 2009. USGS. 2009. Hillshade created from oakdem5ft GRID and the USGS National Elevation Dataset (NED) 1 arc second
8. California Spatial Information Library (CASIL). 2009. Mosaic of Digital Raster Graphics (DRG) scanned from USGS 7.5' topo map.

#### Sausal Parks

1. Park Boundaries- Extracted from Parks.shp received from Karen Paulsell.
2. Hydrologic Systems, Inc. 2009. Sausal Watershed Boundary, Sausal\_Watershed\_Boundary.shp
3. Hydrologic Systems, Inc. 2009. Sub-Basins, SubBasins – 33 Basins.shp
4. USGS. 2009. Key roads, USGS DLG data
5. USGS. 2009. Highways, USGS DLG data

#### Sausal Soils

1. Soils, soils.shp- from Natural Resources Conservation Service (NRCS) soils, Alameda County
2. Hydrologic Systems, Inc. 2009. Sausal Watershed Boundary, Sausal\_Watershed\_Boundary.shp

#### Sausal Sub-Basins

1. Hydrologic Systems, Inc. 2009. Sub-Basins, SubBasins – 33 Basins.shp
2. Hydrologic Systems, Inc. 2009. Sausal Watershed Boundary, Sausal\_Watershed\_Boundary.shp
3. USGS. 2009. Key roads, USGS DLG data
4. USGS. 2009. Highways, USGS DLG data

5. USGS. 2009 Streams, delineated\_streams.shp (modified by Lisa Lackey, using contour lines of 7.5 Topos)
6. City of Oakland. 2009. USGS. 2009. Hillshade created from oakdem5ft GRID and the USGS National Elevation Dataset (NED) 1 arc second