

Program Budget FISCAL YEAR 2016-2017

APRIL 2016



May 11, 2016

Blackhawk GHAD Board of Directors c/o Supervisor Mary N. Piepho 3361 Walnut Boulevard, Suite 140 Brentwood, California 94513

SUBJECT: Program Budget for Fiscal Year 2016-2017

Blackhawk Geologic Hazard Abatement District

Dear Board Members:

Attached please find the proposed program budget for the Blackhawk Geologic Hazard Abatement District (Blackhawk GHAD or GHAD) for fiscal year 2016/2017. The proposed fiscal year budget totals \$1,429,000, which falls within projected revenues and anticipates a \$650,000 contribution to the reserve fund. At the time of this publication, it is expected that the fund balance on June 30, 2016 will be approximately \$6,970,000. A fund balance of \$7,620,000 is projected for June 30, 2017.

There are four major annual budget categories; their respective budget expenses break down as follows:

| Major Projects | 33 percent |
|---|------------|
| Preventative Maintenance and Operations | 32 percent |
| Special Projects | 7 percent |
| Administration, Legal, Accounting | 28 percent |

As a percentage of the annual budget, the Major Projects Program will utilize approximately thirty-three percent. Two large-scale slope stabilization projects have been recently completed, addressing the inventory of planned remedial repair projects. The Major Projects Program budget will begin to redirect focus on the continuation of two primary studies designed to refine the Blackhawk GHAD's predictive and response capabilities by analyzing long-term site specific data and providing markers to indicate the potential for land movement or the need for preemptive improvements to reduce hazard risk.

The Preventive Maintenance Program will focus on continued efforts to complete asset site restorations. The program will continue to upgrade and analyze these sites and the associated data collection to insure all predictive features of these instrumentation and asset sites are fully realized. Specifically, we will continue to target the following program elements - Concrete Interceptor Ditch Systems (Repair and Replace Program); the Horizontal Drains (Site Maintenance Program, and a district wide cleaning program; the Piezometers (Site Maintenance Program), and the Soil Debris Bench (Maintenance Program). The Operations Program will continue its existing monitoring profile through this period. Although the Bay Area did receive above normal precipitation this past season, the potential for widespread slope failures was not realized in the Bay Area. Currently, The National Oceanic and Atmospheric Administration (NOAA) predicts an increasing likelihood (75%) of La Niña conditions in the Southern Oscillation as we transcend from the traditionally wetter El Niño conditions to potentially drier conditions typically associated with La Niña.

The Special Projects Program will be directed at finalizing Amendment 3 to the Plan of Control which seeks to clarify the independent role of the Blackhawk GHAD and further strengthen those areas of the plan that serve to define the scope of the district's responsibilities. It is anticipated that the GHAD will continue to pursue additional studies in the areas of fiscal policy and geologic risk analyses. Approximately 7% of the annual budget has been set-aside for the Special Projects Program. We continue to work to strengthen our communication with district constituents and stakeholders within the Blackhawk community.

This budget anticipates continued strengthening and building efficiencies within the Administration Program. General legal counsel will continue to be provided by the Blackhawk GHAD Board appointed attorney, Patricia Curtin of Wendel, Rosen, Black & Dean, LLP, and specific litigation counsel will be provided by Timothy J. Ryan of Bold, Polisner, Maddow, Nelson & Judson. The Blackhawk GHAD has been sued by a number of townhome owners and the Silver Oaks HOA in litigation filed May 6, 2009, in the Contra Costa Superior Court (Jerrold Feiger, et al. v. Blackhawk Corporation et al., Case No. C09-01221). The case involves property damage claims arising from alleged earth movement on privately owned slopes situated below plaintiffs' townhomes. The lawsuit currently involves a total of 13 units in 6 different buildings and the Silver Oaks Homeowners Association. The GHAD has no liability in the case because it neither owns nor controls the slopes where movement is allegedly occurring. These slopes are owned by co-defendants Blackhawk Corporation (which filed for bankruptcy in 2013) and Blackhawk Executive Center Association (BECA). The GHAD has determined, however, through its own geotechnical investigations, that landslide activity was occurring at two separate locations along the slope. Accordingly, the GHAD designed and recently completed slope stabilization projects on the BECA slope below Silver Oaks Building 17 and on the Blackhawk Corporation slope below Silver Oaks Building 7. The area continues to be monitored for slope movement. If the data indicates active land sliding the GHAD could explore additional slope stabilization options at that time. In any event, the GHAD would still have no legal liability for the plaintiffs' claims in the litigation. This budget reflects continued defense of this litigation and the potential for a trial which would likely occur in late 2016.

A summary of the expenses is shown on Table 1, pages 4 and 5, followed by brief descriptions of each of the budget items on pages 6 through 14.

Respectfully yours,

Blackhawk Geologic Hazard Abatement District

Michael D. Sands

Sands Construction Company, Inc.

General Manager

Distribution list:

Blackhawk GHAD Board of Directors:

Supervisor Mary N. Piepho 3361 Walnut Boulevard, Suite 140 Brentwood, CA 94513

Supervisor John M. Gioia 11780 San Pablo Avenue, Suite D El Cerrito, CA 94530

Supervisor Candace Andersen (Board Chair) 309 Diablo Road Danville, CA 94526

Supervisor Karen Mitchoff 2151 Salvio Street, Suite R Concord, CA 94520

Supervisor Federal D. Glover 315 East Leland Road Pittsburg, CA 94565

GHAD Attorney:

Patricia Curtin, Esq. (Blackhawk GHAD Attorney) Wendel Rosen Black & Dean, LLP 1111 Broadway, 24th Floor Oakland, CA 94607

Timothy J. Ryan, Esq. Bond, Polisner, Maddow, Nelson & Judson 500 Ygnacio Valley Road, Suite 325 Walnut Creek, CA 94596-3840

GHAD Treasurer:

Mark I. Miller Watermark Asset Management, Inc. 2010 Crow Canyon Place, Suite 210 San Ramon, CA 94583

Upon Execution: The following entities will be noticed that management will post approved Budget at www.blackhawkghad.com

Blackhawk Homeowners Association 4125 Blackhawk Plaza Circle, #230 Danville, CA 94506 Attention: Mark Goldberg

Hidden Oaks at Blackhawk c/o Community Care Property Management P.O. Box 269 Oakley, CA 94561

Tennis Villas at Blackhawk c/o CMJ Associates, Inc. P.O. Box 190 Pleasanton, CA 94566

Saddleback at Blackhawk c/o Jean Bates & Associates 70 Railroad Avenue Danville, CA 94506

Silver Oak Townhomes at Blackhawk Canyons at Blackhawk c/o Bridgeport Company 1 Annabel Lane #217 San Ramon, CA 94583 Attention: Bill Bavelas

Blackhawk Country Club 599 Blackhawk Club Drive Danville, CA 94506

Attention: Kevin Dunne, General Manager

Blackhawk Geologic Hazard Abatement District Program Budget Fiscal Year 2016/2017

The following proposed line item program budget (Table 1) summarizes the anticipated expenditures for fiscal year 2016/2017 for the Blackhawk Geologic Hazard Abatement District (Blackhawk GHAD, GHAD, or District). Through an ongoing assessment the GHAD manager evaluates and addresses geologic risk through the implementation of an annual program budget consisting of four major categories. Preceding Table 1, and directly below, please see a general overview description of the four major program elements within the budget.

Major Projects Program

The annual Major Projects Program includes landslide repair projects, drainage improvement projects and capital improvement projects necessary to either control, mitigate, or prevent landslide activity. Other large program responses necessary to implement the Plan of Control, including specific purpose studies and investigations may also be included in the Major Projects Program.

Generally, for consideration of inclusion into the Major Projects Program, a project or study would represent a level of complexity requiring plans, specifications, and comprehensive engineering analysis including modeling and research, or a project with a protracted scope such as those requiring multiple regulatory agency approvals. Most Major Projects have a projected cost that exceeds \$50,000.

Historically, the Major Projects Program has been comprised of significant landslide repair projects and other responsive large projects; at other times, it has included programmatic studies and investigations useful in generating proactive responses. This diversity of projects demonstrates the importance of a flexible Major Projects Program structure that adapts between responsive and proactive needs and capabilities to manage the dynamic nature of larger scale geologic events.

Preventative Maintenance and Operations Program

The annual Preventative Maintenance and Operations Program includes all minor repairs, cleanup, maintenance, monitoring and replacement of drainage structures and other assets that degrade over a serviceable life. The goal of preventative maintenance is to keep assets in operational condition and identify potential slope stability risks before they manifest, allowing measures to be taken to either prevent, or mitigate the impact of these hazards as defined in the Blackhawk GHAD Plan of Control.

Typical Blackhawk GHAD assets include concrete lined ditches, subdrainage systems, groundwater measuring instrumentation, slope inclinometers and moisture gauges, and slope debris catchment features.

The Preventative Maintenance Program also includes preparations for emergency response, winterization measures including erosion protection and slope stabilization supplies, and instrument maintenance.

The Operations Program is primarily populated with scheduled instrument monitoring events. Data from these instruments are evaluated to establish risk and trends in an effort to avert landslide activity. In addition to the instruments monitoring program, the Operations Program contains the Incident Response and Community Relations Program, which incorporates comprehensive first response capabilities, and fosters community incident interaction.

Special Projects

The Blackhawk GHAD pursues ongoing and new activities identified as "Special Projects". Special Projects include activities requested by the Board such as the Communications Program, or projects and studies designed to improve the District's operational effectiveness and insure financial solvency. Special Projects also include utilizing new technologies to increase the efficiencies of the day-to-day operations. Establishment, testing and placing into service a new Geographic Information System (GIS) has been one of many successful fruitions of the Special Projects Program.

Administration

Administrative expenses are required to operate the Blackhawk GHAD and implement projects. Administrative expenses include personnel and consultants to manage the operations including; the General Manager, Administrative Manager, Construction Services Manager, certain clerical and accounting staff, consultants, and legal support.

With respect to the General Management of the Blackhawk GHAD - The Blackhawk GHAD Board of Directors through Resolution 2015/01, among other business, established a Consulting Services Agreement with Sands Construction Company, Inc. to act as General Manager. The payment limit established for a term through Jun 30, 2016 is \$163,000. The scope of services for the General Manager include, managing the dayto-day operations through implementation of the necessary financial recordkeeping and reporting; updating and maintaining governing documents, such as the Plan of Control; and managing and updating administrative tools such as the Reserve Study. Communications Plan, Work program and Monthly Incident Log. The General Manager Consulting Services Agreement provides for certain administrative positions including. but not limited to, a General Manager, an Administrative Manager, a Construction Services Manager and a Network Administrator as well as overhead costs, such as office space rent, office supplies and postage. The General Manager will retain the necessary professionals, including without limitation, engineers, accounting professionals, and vendors to facilitate the operations of the GHAD. The General Manager Consulting Services Agreement and associated budget allows for the conditional use of subcontractors such as administrative sub-consultants and engineering or construction sub-consultants, within the payment limits of the Consulting Services Agreement.

With respect to the Operations Management of the Blackhawk GHAD, the Operations Manager payment limit is set at \$261,680 for a term through June 30, 2016. The scope of services for the Operations Manager include implementing the Major Projects and Preventive Maintenance Programs through forecasting work schedules and priorities; preparing Requests for Proposals and managing maintenance and repair operations within the Major Projects and Preventive Maintenance Programs - including project management and construction management; and preparing for and responding to emergency incidents. The Operations Manager Consulting Services Agreement provides for certain operational positions including, but not limited to: an Operations Manager, Construction Services Manager and Construction Services Technician, as well as certain overhead costs, such as, office supplies, and electronic monitoring devices testing apparatus rental. The Operations Manager Consulting Services Agreement and associated budget, allows for the conditional use of subcontractors such as contractors, engineers, and special inspectors, within the payment limits of the Consulting Services Agreement.

A summary of the proposed Fiscal-Year 2016-2017 Budget is presented in Table 1 on the following pages.

| Dudget Item | Budget | % of Total |
|--|-----------|------------|
| Budget Item | Amount | Budget |
| Major Repairs | | |
| Instrument Restoration and Replacement | 75,000 | |
| Horizontal Drain Cleaning Program | 100,000 | |
| Study – Groundwater Study/Slope Stability Analyses | 85,000 | |
| Unanticipated Sites | 140,000 | |
| Landscape Replacement (associated with repairs) | 70,000 | |
| Total Major Projects | \$470,000 | 33% |
| Preventive Maintenance/Operations | | |
| Preventive Maintenance | | |
| Drainage | | |
| Storm Drain Facilities | 10,000 | |
| B-58 Concrete Lined Ditches | | |
| Maintenance/Clean/Map | 29,500 | |
| Repair and Replace | 80,000 | |
| Retention Basins | 10,000 | |
| Subdrain Systems | 10,000 | |
| Horizontal Drains | 50,000 | |
| Subdrain Outlets/Pumps | 5,000 | |
| Piezometers | 20,000 | |
| Settlement Monitors | 10,000 | |
| Minor Repairs | 70,000 | |
| Winterization | 25,000 | |
| Emergency Response | 50,000 | |
| Debris Benches | 20,000 | |
| Subtotal | \$379,500 | |
| Operations | | |
| Piezometer Monitoring | 6,000 | |
| Horizontal Drain Monitoring | 6,000 | |
| Subdrain Monitoring | 6,000 | |
| Settlement Monitoring | 5,000 | |
| Incident Response/Community Relations | 50,000 | |
| Project Monitoring | 2,000 | |
| Subtotal | \$75,000 | |

Total Preventive Maintenance/Operations

32%

\$454,500

| Budget Item | Budget Amount | % of Total Budget |
|--|------------------|----------------------|
| Special Projects | | Buaget |
| Plan of Control | 25,000 | |
| Reserve Study Update | 1,000 | |
| Special Studies | 35,000 | |
| Information Technology | 20,000 | |
| Accounting Systems Upgrade | 1,000 | |
| Procedures Manual | 5,000 | |
| Communications Program | 7,500 | |
| CA Association of GHADs – Membership/Insurance | 5,000 | |
| Total Special Projects | \$99,500 | 7% |

| Administration | | |
|--|---------------------|-----|
| Legal fees | | |
| General Counsel | 50,000 | |
| Special Counsel | | |
| Litigation/Legal Concerns | | |
| Feiger vs Blackhawk Corp, et al* | 160,000 | |
| Legal Matters/Claims | 30,000 | |
| Staffing/Administrative Support | /Bookkeeping 62,000 | |
| Accounting/Bookkeeping | | |
| Training/Education | | |
| Office – Rent/Supplies/Equipment/Lease | 17,000 | |
| Total Administration | \$405,000 | 28% |

| TOTAL PROPOSED BUDGET FY2016/2017 | \$1,429,000 | 100% |
|-----------------------------------|-------------|------|

| Available Funds | |
|---|-------------|
| Estimated Beginning Fund Balance – July 1, 2016** | 6,970,000 |
| Estimated Contributions from M-23 (M-23 Surplus) | 2,010,000 |
| Estimated Interest on Investments | 69,000 |
| Other Income | 00 |
| Total Available Funds | \$9,049,000 |
| | |
| Uses of Funds | |
| Major Projects | 470,000 |
| Preventive Maintenance | 454,500 |
| Special Projects | 99,500 |
| Administrative | 405,000 |
| Total Use of Funds | \$1,429,000 |
| Estimated Reserve Available/Ending Fund Balance June 30, 2017 | \$7,620,000 |

 ^{*} Feiger vs Blackhawk Corp, et al aka: Silver Oak Townhomes
 ** Includes estimated accrued true-up revenue payment (Sept 2016) of \$100,583; Projected Fund Balance date of publication

DESCRIPTION OF BUDGET ITEMS

Major Projects

Study - Instrument Restoration and Replacement

Typically, instrument replacement and maintenance falls within the Preventive Maintenance program; however, for several years the Blackhawk GHAD has conducted independent regional studies to identify trending patterns of groundwater and instrument and drainage efficacy. This study, in progress, will build on previous studies by further identifying potential sites for remedial installations, or provisions. Preliminary studies have identified several sites for restoration work or new replacement installations. Many of these sites have been restored. This budget anticipates continuation of a large-scale restoration program to the horizontal drain systems (also see Preventive Maintenance Program – Horizontal Drain Maintenance).

Estimated Cost \$75,000

Horizontal Drain Cleaning Program

In an effort to restore performance and increase the functional lifespan of its Horizontal Drain assets, the Blackhawk GHAD has collaborated with other GHADs to conduct a Horizontal Drain Cleaning Test Program. In general, the program seeks to find and implement a cost effective methodology of performance maintenance to apply to the vast network of horizontal drains throughout the district.

Once vetted, the cleaning program is expected to be released throughout the district wide network of drains.

Estimated Cost \$100,000

Study - Groundwater Study/Slope Stability Analyses

Slope weathering and changes in groundwater levels over time can contribute to slope instability. It is important for Blackhawk GHAD management to make dynamic assessments to insure design thresholds are met in slope stability. This study, originally initiated in FY 2014-2015 will continue to address several potential sites and analyze conditions. Previous studies have identified potential sites for additional study.

Estimated Cost \$85,000

Unanticipated Sites

During heavy rain years unexpected repairs are necessary to avert or control landslides that may threaten property within the District. It is vital for the manager to retain the availability of funds within the Major Repair Program to address just such an event.

It is also common to experience a change in the planned construction schedule to include additional sites. Known sites can rise in priority throughout the year and additional sites may emerge.

Estimated Cost \$140,000

Landscape Replacement

Typically, remedial landscaping is either included in the scope of work for major projects or eliminated completely from the repair scheme; however, on occasion the associated License Agreements executed in preparation of the work will address a reimbursement or allowance to the property owner for remedial landscaping installation. Such an agreement exists and is outstanding with the Blackhawk Executive Center Association (BECA) relative to the work on the Building 17 slope stability measures project. Additionally, it is anticipated that other agreements may be necessary during this budget term.

Estimated Cost \$70,000

Preventative Maintenance and Operations

Preventive Maintenance

Preventative maintenance generally consists of those measures taken to prevent an incident or landslide event, including asset maintenance, drainage structures, instrument sites and winterization measures. Operations include ongoing monitoring programs and responses to community requests. Details of the proposed budget for each of these categories are listed below.

Storm Drain Facilities (Major Repairs)

In addition to other drainage systems such as Concrete Interceptor Ditches, Subdrains, and other surface and subsurface drainage systems, the Blackhawk GHAD maintains an inventory of concrete drainage structures that from time to time are in need of refurbishment or repairs. A budget has been established to inspect these facilities and make any necessary repairs, not covered within the established "B-58 Drain Systems – Repair and Replacement Program" scope.

Estimated Cost \$10,000

B-58 Drain Systems

Maintenance – Allows for one major annual cleaning and mapping. In addition, District staff periodically walks the B-58 systems to get a first-hand account of the current conditions and project serviceable life. This information, along with other empirical data, is utilized in our Reserve Study updates.

Estimated Cost \$29,500

Repair and Replacement – As a result of intensified efforts in recent years a total of 1508 lineal feet of B-58 was replaced and several-hundred lineal feet of B-58 was

repaired. The district now currently lists approximately 284 lineal feet of significantly damaged B-58 to be repaired throughout the district, with other damage assessments costs (repair or replace) have been estimated (in 2016 dollars) at approximately \$1,000,000. A priority has been established, based on the degree of damage and associated risk to improved properties, and a percentage of these replacement projects will be budgeted throughout the upcoming years. This year's budget will be utilized on repairs to existing B-58s on a site-by-site basis.

Estimated Cost \$80,000

Retention Basins

There are seven retention basins within the district boundaries. Three of these facilities are maintained exclusively by the Contra Costa County Flood Control District through CSA M-23, and the Blackhawk GHAD performs certain periodic maintenance operations at the other four locations, as well as the property owner. In a collective agreement with the Homeowners Association, the Country Club (landowner), and the GHAD, de-siltation efforts have recently been completed in two retention basin. It is not anticipated that the GHAD will participate in additional de-siltation projects during fiscal year 2016/2017; however, the GHAD has been working with the Blackhawk Country Club to develop a Memorandum of Understanding that directs the maintenance and management efforts at these locations moving forward. During FY 2015/2016 the GHAD management engaged the Contra Costa County Public Works Department (Public Works) and the Blackhawk Homeowners Association in discussions to help develop clarity as to the relative responsibilities for drainage maintenance within the GHAD. Those discussions are ongoing and have been expanded beyond the retention basin maintenance to incorporate more of the total network of storm drain systems within the district. We are greatly encouraged as these trilateral discussions continue and anticipate a more comprehensive and clear understanding of storm drain maintenance and arterial drainage system maintenance moving forward.

Additionally, protracted drought conditions in northern California have resulted in significant reduction in water levels in many dual purpose storm water retention facilities in the area, including within the Blackhawk development. Although somewhat relieved by greater than normal rainfall this season, the GHAD manager is actively working with local Homeowners Associations, Country Club management and other jurisdictional agencies to further explore the potential risk ramifications in an effort to collectively plan for impact.

Estimated Cost \$10,000

Subdrain Systems

Outlet sites for subdrain systems must be monitored and maintenance provided to insure outlets have not been damaged or impeded. This budget will allow for an inspection and minor maintenance of these sites.

Estimated Cost \$10,000

Horizontal Drains

The District Manager has placed a high priority on verifying the condition of and restoring as many existing horizontal drains throughout the development as possible. A definitive list of

sites requiring repairs has been determined and work continues on restoring the sites and installing identification markers. The work this year has been expanded to continue implementation of a multi-year cleaning program.

Estimated Cost \$50,000

Subdrain Outlets/Pumps

The Blackhawk GHAD conducts ongoing efforts to identify, locate and make determinations about the effectiveness of the network of subdrains throughout the District. It is anticipated that on-site restoration work may be necessary at some sites. This additional work as well as the additional introduction of the subdrain systems into the District GIS system has been incorporated into this budget item.

The GHAD maintains a subdrain pumping facility located adjacent to Hole #1 of the Lakes Course, Country Club. Periodic site checks for operation are required. In recent years the equipment, instrumentation and electronics have been updated. This year, maintenance will be performed at this site to insure the continued reliability of this system and facility.

Estimated Cost \$5,000

Piezometers

The District reads and maintains in excess of 100 piezometers measuring ground water elevations. A definitive list of sites requiring repairs has been determined and work begun on restoring the sites and installing identification markers. The work this year has been expanded to include a greater number of sites and inclusion of the sites into the GIS, and to maintain site locations.

Estimated Cost \$20,000

Settlement Monitors

Over time, a number of settlement monitors have been placed throughout the development. These monitors were, in large part, installed as part of one specific study or another and therefore are not continually monitored. Currently ongoing monitoring programs exist in several areas of the District.

Estimated Cost \$10,000

Minor Repairs

A budget is established annually for minor projects establishing a provision for unanticipated minor projects within the Preventive Maintenance Program. Currently a slope repair project is in the design phase and repair efforts are expected to take place in early FY2016/2017 in the Eagle Ridge area.

Estimated Cost \$70,000

Winterization

The District provides an annual budget for procuring and storing an inventory of winterization materials and to provide for the costs of site installation.

Estimated Cost \$25,000

Emergency Response

During the winter rainy season the Blackhawk GHAD responds to a range of urgent, active, and threatening landslides as well as drainage issues where property damage is threatened. These incidents typically involve mud or debris flows, plugged storm drains at the base of slopes or flooded properties due to the overflow of runoff from plugged or damaged facilities. In severe cases these responses can require the initiation of temporary slope stabilization measures in preparation for a major repair.

Estimated Cost \$50,000

Debris Benches

Numerous earthen debris benches exist throughout the district. It is essential that these facilities are inspected to insure capacities and drainage have not been compromised. Annual inspections are made and periodic debris removal plans are initiated. This year's budget allows for geotechnical evaluations and the periodic removal of accumulated debris from several of those benches identified during the study and routine monitoring events.

Estimated Cost \$20,000

Operations

An inventory of on-site instrumentation including hundreds of piezometers, inclinometers, horizontal drains, subdrains and settlement monuments are monitored periodically throughout the year as a preventative measure. Collected data from these sites is analyzed and aggregated into the GIS system for further analysis to establish trends.

Monitoring sites can be established for a variety of uses. Often completed repair sites require monitoring to confirm that the slope has been stabilized. Other sites have been utilized to indicate signs of unstable conditions developing and have been instrumental in determining slope conditions prior to the activation of a landslide.

Through the use of collected data such as groundwater depth, magnitude of slope movement, depth of movement, and ground surface movement, the District has been able to arrest slope movement in advance of an incipient failure. Archiving of historical data is currently being integrated into the GHAD GIS system.

Throughout the year the District receives incident response or assistance calls from property owners regarding slope stability or drainage issues. Community relations, including incident responses through the annual Operations Program has been institutionalized as a role of Blackhawk GHAD management. All incidents are recorded within the GIS and move through the district response mechanisms as is appropriate and consistent with the Blackhawk GHAD Plan of Control.

The GHAD manager receives updates in long-range weather and oceanic temperature changes through the National Oceanic and Atmospheric Administration (NOAA) and other scientific and atmospheric agencies that track data and produce probabilistic assessments on the likelihood of a recurrence of El Niño conditions. After a milder than expected El Niño event

this year, statistical tables currently indicate an increasingly stronger possibility of La Niña conditions for the late months of 2016 and early months of 2017¹.

Estimated Cost \$75,000

Special Projects

During fiscal year 2016-2017 the District will continue several special projects. Brief descriptions of the special projects are presented in Table 1 and further described below:

Plan of Control

It is anticipated that Amendment 3 to the Plan of Control will be presented to the Board which will contain certain minor, but necessary, clarifications in the language.

Estimated Cost \$25,000

Reserve Study Update

The Blackhawk GHAD reserve fund study was originally completed in FY2002-2003. An extensive update to the plan was completed in fiscal year 2012-2013. The reserve study functions as a pro-forma analysis of the financial needs of the Blackhawk GHAD. It serves as a tool to calculate the annual contribution required by the GHAD to build and maintain sufficient funds for emergencies and capital replacement programs based on past weather patterns, landslide repair costs, and general attrition. Historically, as a result of severe winters, draws have been necessary on the reserve fund. Work has been completed on an independent analysis of the fund health and methodologies. This analysis has been used in updating the pro-forma plan and provides instruction to GHAD management as to the necessary reserve demands over time.

Estimated Cost \$1,000

Special Studies

The Blackhawk GHAD intends to continue targeted studies in the areas of fiscal policy and geologic risk. The GHAD, now in its 30th year, has the unique opportunity to address many of the issues surrounding long-term viability and sustainability, within changing environmental and financial conditions. Using empirical data we can assess potentially increasing financial loads and geologic risks that may accompany the maturation process of this district. We are confident that these studies have produced, and will continue to produce beneficial results.

Estimated Cost \$35,000

¹ NOAA - "El Niño/Southern Oscillation (ENSO) - Diagnostic Discussion" - May 12, 2016

Information Systems and Technology

The Blackhawk GHAD has completed its upgrade to its GIS system to include all of the GHAD's data collection and monitoring operations. The system is now fully operational and is run from internal servers, combined with secure and private "cloud" storage. The record and tool that this system offers facilitates the General Manager's ability to locate past repairs and assist in a variety of risk assessments within the District. Upgrades have now provided additional state-of-the-art security and redundancy features not historically available.

As a result of an independent evaluation of the Blackhawk GHAD's information systems conducted in 2012 and again in 2015, the GHAD has modernized its IT systems and security. Additionally, the GHAD website www.blackhawkghad.com has continued to provide a mechanism to disseminate information to our constituents.

It is anticipated that work will continue on enhancements to the GHAD GIS during this term. Work will include, incorporating access features to data and graphic representations, and improving the performance and usability of the site.

Estimated Cost \$20,000

Accounting System Upgrade

Periodic upgrades are necessary to enhance accounting system capabilities. The Blackhawk GHAD utilizes expense accounting software to assist in reporting and the day to day operation of the District. Continued accounting systems enhancements will be implemented allowing more data entry streamlining, enhanced reporting, and quality control assurance procedures, augmenting the current systems.

Estimated Cost \$1,000

Procedures Manual

The Blackhawk GHAD continually upgrades procedures and modifies plans to incorporate new technologies that assist the GHAD in delivering the highest level of services. Procedures require certain modifications and enhancements as new methodologies are introduced and incorporated into the GHAD Standard Operation Procedures. Certain financial and operations procedures have been institutionalized within the program. Additional procedures will be incorporated to further define and standardize the following areas:

- Preventive Maintenance/Operations
- Communications
- Administrative Procedures

Estimated Cost \$5,000

Communications Plan

The Blackhawk GHAD maintains a communications plan designed to keep constituents current on GHAD operations and developments. The plan addresses several venues and mediums in which to disseminate information within this district, and to other concerned parties, and to establish clear and accessible channels for community interaction. The GHAD has now

implemented a web page for public information and a multi-page informational brochure has been completed and distributed to interested Homeowner Associations (HOA) that describes the GHAD and its responsibilities and limitations. Additionally, the General Manager writes periodic articles for the HOA newsletter.

Estimated Cost \$7,500

Outreach/Legislative Review California Association of GHADs (CAGHADs) Membership/Insurance

The proliferation of new GHADs within California has resulted in new legislation and adopted procedures. The Blackhawk GHAD Manager, in association with others, shares information and knowledge through a consortium of GHAD managers known as the California Association of GHADs (CAGHADs). The CAGHAD has recently obtained General Liability policies for its member GHADs. Policy premium costs for the Blackhawk GHAD are approximately \$3,500². Additionally, the GHAD manager participates in the CAGHADs as the organization pursues other financial instruments that may provide the Blackhawk GHAD additional options for extraordinary event financial planning. In 2016 the CAGHAD Board adopted a new fee schedule reducing the annual GHAD fees for membership by 50%.

Estimated Cost \$5,000

Administration

The administration of the Blackhawk GHAD includes all costs associated with legal support, office expenses, staffing, and accounting. Brief descriptions are presented below.

Legal

General Counsel – Blackhawk GHAD management must interact regularly with GHAD Counsel. The day-to-day operations of the GHAD present myriad opportunities and issues to work directly with GHAD counsel, in the areas of contracts, agreements, issues or new business to present to the Board, legislation, property owner issues, etc.

Estimated Cost \$50,000

Special Counsel – Blackhawk GHAD management requires the services of special counsel from time to time in the areas of litigation and other legal concerns. Currently special legal counsel is representing the GHAD in a claim involving the Silver Oak Townhomes Development.

Estimated Cost \$160,000

² Nominal increases in unit costs are expected in 2017

Staffing/Administrative Support

The Blackhawk GHAD staff includes the General Manager, a Construction Services Manager, an Administration Manager and frequently other support staff and consulting professionals. The General Manager administers all GHAD day-to-day operations, including financial budgeting and communications regarding its activities. The Construction Services Manager, among other tasks, administers the Major Projects and Preventive Maintenance Programs and associated work schedules, consulting and construction contracts, and documents. The administrative staff is responsible for accounting/bookkeeping, contract administration, clerical, and construction management support. Additional management staff costs are also applied to specific projects as appropriate. Authorized business expenses such as rent, office supplies and leases are included in Staffing.

Estimated Cost \$165,000