



Davenport Disposal Site



Archie Crippen Illegal Disposal Site



National City Burn Dump

Name of entity claiming experience: Bryan A. Stirrat & Associates

Project name/location: Engineering Services for Landfill and Disposal Site Remediation

Name of client (owner or prime Contractor): California Integrated Waste Management Board

Client contact and current telephone number: Wes Mindermann – 916/341-6314

Contract amount (listed entity only): \$7,000,000

Percent of work performed with your entity's resources: 80%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Remediation plans/specifications         | <input checked="" type="checkbox"/> Waste characterization       |
| <input checked="" type="checkbox"/> Property / title / deed history research | <input checked="" type="checkbox"/> Hazardous waste operations   |
| <input checked="" type="checkbox"/> Site surveys                             | <input checked="" type="checkbox"/> CQA testing/monitoring       |
| <input checked="" type="checkbox"/> Site Grading Design                      | <input checked="" type="checkbox"/> Construction management      |
| <input checked="" type="checkbox"/> Drainage system design                   | <input checked="" type="checkbox"/> Community education/outreach |
| <input checked="" type="checkbox"/> Erosion control system design            | <input checked="" type="checkbox"/> Geotechnical investigations  |
| <input checked="" type="checkbox"/> Excavation/embankment design             | <input checked="" type="checkbox"/> Other: See below             |

Brief description of the project and your entity's participation:

The BAS Team has been providing investigation, engineering, design and construction management support to the CIWMB Solid Waste Disposal and Codisposal Site Cleanup Program since 1997. The Team is responsible for conducting field investigations, developing workplans for site remediation, and performing construction management / construction quality assurance during site remediations. The Team has also provided constructibility review of engineering drawings, evaluated Site Investigation Reports and construction specifications, and provided technical assistance to field personnel during construction operations. Over the past eight years of this contract, the BAS Team has provided engineering support to the CIWMB for projects at 56 disposal sites in 25 California counties.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: \_\_\_\_\_



Name of entity claiming experience: Bryan A. Stirrat Associates

Project name/location: Prima Deshecha Landfill – San Juan Capistrano, California

Name of client (owner or prime Contractor): Orange County Integrated Waste Management Department

Client contact and current telephone number: George Ker – 949/728-3042

Contract amount (listed entity only): \$1,400,000 (engineering); \$1,140,000 (design)

Percent of work performed with your entity’s resources: 100%

Type of work (mark all that apply):

- |   |  |
|---|--|
| <input type="checkbox"/> Remediation plans/specifications         | <input type="checkbox"/> Waste characterization                  |
| <input type="checkbox"/> Property / title / deed history research | <input type="checkbox"/> Hazardous waste operations              |
| <input checked="" type="checkbox"/> Site surveys                  | <input checked="" type="checkbox"/> CQA testing/monitoring       |
| <input checked="" type="checkbox"/> Site grading design           | <input checked="" type="checkbox"/> Construction management      |
| <input checked="" type="checkbox"/> Drainage system design        | <input checked="" type="checkbox"/> Community education/outreach |
| <input checked="" type="checkbox"/> Erosion control system design | <input checked="" type="checkbox"/> Geotechnical investigations  |
| <input checked="" type="checkbox"/> Excavation/embankment design  | <input checked="" type="checkbox"/> Other: See below.            |

Brief description of the project and your entity’s participation:

The BAS Team has been providing solid waste engineering permitting, design, construction management, and construction quality assurance in support of development projects at this municipal landfill since 1996. This has included engineering and CM/CQA for mass excavation projects, fine grading, placement and compaction of low permeability soil liners, installation of geomembrane liner systems, installation of leachate collection systems, drainage systems, and improvements and extension of on-site access roads. The Team also assisted the client in presentations to local government agencies and citizens groups in support of expansion plans for the site. Additional responsibilities included earthwork design and resource agency permitting for the remediation of a landslide at the site.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: \_\_\_\_\_



Name of entity claiming experience: Bryan A. Stirrat & Associates

Project name/location: Mid-Valley Landfill – San Bernardino County, California

Name of client (owner or prime Contractor): County of San Bernardino

Client contact and current telephone number: Art Rivera – 909/386-8775

Contract amount (listed entity only): \$2,500,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Remediation plans/specifications | <input checked="" type="checkbox"/> Waste characterization       |
| <input type="checkbox"/> Property / title / deed history research    | <input checked="" type="checkbox"/> Hazardous waste operations   |
| <input checked="" type="checkbox"/> Site surveys                     | <input checked="" type="checkbox"/> CQA testing/monitoring       |
| <input checked="" type="checkbox"/> Site grading design              | <input checked="" type="checkbox"/> Construction management      |
| <input checked="" type="checkbox"/> Drainage system design           | <input checked="" type="checkbox"/> Community education/outreach |
| <input checked="" type="checkbox"/> Erosion control system design    | <input checked="" type="checkbox"/> Geotechnical investigations  |
| <input checked="" type="checkbox"/> Excavation/embankment design     | <input checked="" type="checkbox"/> Other: See below             |

Brief description of the project and your entity's participation:

The BAS Team has been providing design, CM/ CQA, and remediation action services to the County of San Bernardino to support the development of this regional metropolitan disposal facility since 1995. In an initial phase, BAS provided engineering, geotechnical investigation services, and CM/CQA services for the excavation of approximately 10 million cubic yards of material during the initial development of the Unit 3 area.

Additional responsibilities have included the following:

- Design, construction, and sampling of groundwater monitoring wells
- Installation of multiple temporary sampling wells within each monitoring well boring.
- Design, completion, and analyses of aquifer pumping tests.
- Groundwater modeling using USGS MODFLOW program.
- Design and installation of groundwater pump and treat system consisting of 36 wells and a water treatment plant.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: \_\_\_\_\_



Name of entity claiming experience: Bryan A. Stirrat & Associates

Project name/location: Ballard Canyon Landfill – Santa Barbara County, California

Name of client (owner or prime Contractor): County of Santa Barbara

Client contact and current telephone number: Chris Wilson – 805/882-3621

Contract amount (listed entity only): \$250,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |   |   |
|---|---|
| <input type="checkbox"/> Remediation plans/specifications         | <input type="checkbox"/> Waste characterization                 |
| <input type="checkbox"/> Property / title / deed history research | <input type="checkbox"/> Hazardous waste operations             |
| <input type="checkbox"/> Site surveys                             | <input checked="" type="checkbox"/> CQA testing/monitoring      |
| <input checked="" type="checkbox"/> Site grading design           | <input checked="" type="checkbox"/> Construction management     |
| <input checked="" type="checkbox"/> Drainage system design        | <input type="checkbox"/> Community education/outreach           |
| <input checked="" type="checkbox"/> Erosion control system design | <input checked="" type="checkbox"/> Geotechnical investigations |
| <input checked="" type="checkbox"/> Excavation/embankment design  | <input checked="" type="checkbox"/> Other: See below            |

Brief description of the project and your entity's participation:

The BAS Team provided CM/CQA services for the closure of this 30 year old inactive site owned by the County of Santa Barbara. The final cover system designed by the Team was an alternative to the prescriptive cover design that utilized a 60-mil thick high-density polyethylene (HDPE) flexible membrane cover (FMC) in place of the low hydraulic-conductivity soil material utilized in a prescriptive cover. This configuration was selected due to the lack of an on-site or regional source of low-permeability soil material. The Team provided CM/CQA during the removal the existing landfill gas extraction header system, regrading and compacting the foundation layer, installation of HDPE liner system, placement of vegetative soil layer and installation of storm water collection and conveyance system and perimeter fencing.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: \_\_\_\_\_



Alternative Cover Demonstration Project



Aeration Trench



Groundwater Treatment Sys.

Name of entity claiming experience: Bryan A. Stirrat & Associates

Project name/location: Milliken Landfill - San Bernardino County, California

Name of client (owner or prime Contractor): County of San Bernardino

Client contact and current telephone number: Art Rivera - 909/386-8775

Contract amount (listed entity only): \$750,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Remediation plans/specifications | <input checked="" type="checkbox"/> Waste characterization      |
| <input type="checkbox"/> Property / title / deed history research    | <input checked="" type="checkbox"/> Hazardous waste operations  |
| <input checked="" type="checkbox"/> Site surveys                     | <input checked="" type="checkbox"/> CQA testing/monitoring      |
| <input checked="" type="checkbox"/> Site grading design              | <input checked="" type="checkbox"/> Construction management     |
| <input checked="" type="checkbox"/> Drainage system design           | <input type="checkbox"/> Community education/outreach           |
| <input checked="" type="checkbox"/> Erosion control system design    | <input checked="" type="checkbox"/> Geotechnical investigations |
| <input checked="" type="checkbox"/> Excavation/embankment design     | <input checked="" type="checkbox"/> Other: See Below.           |

Brief description of the project and your entity's participation:

The BAS Team provided a variety of services at the site between 1996 and 2003 with regard to the installation of an alternative final cover system, and the remediation of VOC contamination in the groundwater near the site.

Alternative Cover: The Team designed, negotiated and performed CQA services during the construction of a monolithic alternative final cover system on the East Mound at the site. This included conducting negotiations with the CIWMB, RWQCB, and local enforcement agencies. This was the first alternative cover project undertaken by the client and was designed as the foundation for approval of alternative covers throughout the County waste system.

Groundwater Remediation: The Team completed an extensive hydrogeologic investigation to characterize groundwater conditions near the facility and identified the nature and extent of groundwater impacts within multiple water-bearing zones. The Team subsequently designed and installed a groundwater pump and treat system at the site. This included negotiation of applicable permits from local planning departments, the SCAQMD, and other agencies.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: \_\_\_\_\_



Name of entity claiming experience: Bryan A. Stirrat & Associates

Project name/location: Tajiguas Landfill – Santa Barbara County, California

Name of client (owner or prime Contractor): County of Santa Barbara

Client contact and current telephone number: Chris Wilson – 805/882-3621

Contract amount (listed entity only): \$500,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |   |   |
|---|---|
| <input type="checkbox"/> Remediation plans/specifications         | <input type="checkbox"/> Waste characterization                 |
| <input type="checkbox"/> Property / title / deed history research | <input type="checkbox"/> Hazardous waste operations             |
| <input checked="" type="checkbox"/> Site surveys                  | <input checked="" type="checkbox"/> CQA testing/monitoring      |
| <input checked="" type="checkbox"/> Site grading design           | <input checked="" type="checkbox"/> Construction management     |
| <input checked="" type="checkbox"/> Drainage system design        | <input type="checkbox"/> Community education/outreach           |
| <input checked="" type="checkbox"/> Erosion control system design | <input checked="" type="checkbox"/> Geotechnical investigations |
| <input checked="" type="checkbox"/> Excavation/embankment design  | <input checked="" type="checkbox"/> Other: See below            |

Brief description of the project and your entity's participation:

The BAS Team provided engineering and geotechnical services in support of the Tajiguas Landfill Phase 1A groundwater protection system design project. The Phase 1A liner subgrade preparation included removal of approximately 360,000 cubic yards of material from the eastern slope adjacent to the existing Phase 1 refuse placement area. The Team evaluated the stability of the Phase IA Cut/Fill subgrade slopes. In addition, stability of the proposed Phase II subgrade cut slopes in the immediate area of the intersection of Phases IA and II were evaluated to determine potential buttress requirements for the proposed combined Phase IA/II slope. Following completion of design work, the Team provided complete CM/CQA services during the construction of site improvements.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: \_\_\_\_\_



Name of entity claiming experience: Bryan S. Stirrat & Associates/GeoLogic Associates

Project name/location: Valle Vista Burn Dump – Hemet, California

Name of client (owner or prime Contractor): Forecast Homes

Client contact and current telephone number: Anthony Bertrand – 909/483-7320

Contract amount (listed entity only): \$75,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Remediation plans/specifications         | <input checked="" type="checkbox"/> Waste characterization     |
| <input checked="" type="checkbox"/> Property / title / deed history research | <input checked="" type="checkbox"/> Hazardous waste operations |
| <input type="checkbox"/> Site surveys  | <input checked="" type="checkbox"/> CQA testing/monitoring     |
| <input checked="" type="checkbox"/> Site grading design                      | <input type="checkbox"/> Construction management               |
| <input checked="" type="checkbox"/> Drainage system design                   | <input type="checkbox"/> Community education/outreach          |
| <input checked="" type="checkbox"/> Erosion control system design            | <input type="checkbox"/> Geotechnical investigations           |
| <input checked="" type="checkbox"/> Excavation/embankment design             | <input checked="" type="checkbox"/> Other: See Below.          |

Brief description of the project and your entity's participation:

BAS developed the Remedial Action Work Plan (RAWP) for the remediation of a burn dump on the banks of the San Jacinto River where a major Southern California home builder wished to construct a residential development. The overall project involved regulatory negotiation and preparation of required permits, removal and loading of solid waste and ash, transportation of waste to a permitted Class III landfill, disposal of metal debris, confirmatory sampling, final site grading, and preparation of a Clean Closure Certification Report. BAS was responsible for general project management, including sampling, design services, regulatory liaison, construction inspection and other activities. BAS also assisted the client in selecting a contractor to perform debris excavation and transportation for disposal, as well as selecting a State of California Certified laboratory for sample analyses.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: \_\_\_\_\_



Name of entity claiming experience: Bryan A. Stirrat & Associates

Project name/location: Frank R. Bowerman Landfill – Orange County, California

Name of client (owner or prime Contractor): Orange County Integrated Waste Management Department

Client contact and current telephone number: Ray Douglass – 949/677-1469  
Mike Giancola –949/551-7102

Contract amount (listed entity only): \$2,700,000 (total contract)

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |   |   |
|---|---|
| <input type="checkbox"/> Remediation plans/specifications         | <input type="checkbox"/> Waste characterization                 |
| <input type="checkbox"/> Property / title / deed history research | <input type="checkbox"/> Hazardous waste operations             |
| <input checked="" type="checkbox"/> Site surveys                  | <input checked="" type="checkbox"/> CQA testing/monitoring      |
| <input checked="" type="checkbox"/> Site grading design           | <input checked="" type="checkbox"/> Construction management     |
| <input checked="" type="checkbox"/> Drainage system design        | <input type="checkbox"/> Community education/outreach           |
| <input checked="" type="checkbox"/> Erosion control system design | <input checked="" type="checkbox"/> Geotechnical investigations |
| <input checked="" type="checkbox"/> Excavation/embankment design  | <input checked="" type="checkbox"/> Other: See below            |

Brief description of the project and your entity's participation:

The BAS Team provided CM/CQA and engineering support services at this site between 2000 and 2003. As part of the contract the Team provided engineering, geotechnical, and CM/CQA services for the remediation of a previously mapped ancient landslide complex in the northerly portion of the site. Within days, BAS Team CM/CQA and design personnel had prepared Contract Documents, solicited bids from three separate contractors, negotiated the terms of the agreement, and provided documentation for presentation to the Board of Supervisors for an emergency action approval. The emergency action work was successfully completed in January 2003 and included the excavation and stockpiling of approximately 1,100,000 cubic yards of material.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: \_\_\_\_\_



*Burn Dump Closure*



*Site Overview*

Name of entity claiming experience: Bryan A. Stirrat Associates/GeoLogic Associates

Project name/location: Santa Cruz Landfill – Santa Cruz, California

Name of client (owner or prime Contractor): City of Santa Cruz

Client contact and current telephone number: Ms. Chris Chang – 831/420-5427

Contract amount (listed entity only): \$2,000,000

Percent of work performed with your entity's resources: 100%

Type of work (mark all that apply):

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Remediation plans/specifications | <input checked="" type="checkbox"/> Waste characterization      |
| <input type="checkbox"/> Property / title / deed history research    | <input checked="" type="checkbox"/> Hazardous waste operations  |
| <input checked="" type="checkbox"/> Site surveys                     | <input checked="" type="checkbox"/> CQA testing/monitoring      |
| <input checked="" type="checkbox"/> Site grading design              | <input checked="" type="checkbox"/> Construction management     |
| <input checked="" type="checkbox"/> Drainage system design           | <input type="checkbox"/> Community education/outreach           |
| <input checked="" type="checkbox"/> Erosion control system design    | <input checked="" type="checkbox"/> Geotechnical investigations |
| <input checked="" type="checkbox"/> Excavation/embankment design     | <input checked="" type="checkbox"/> Other: See below.           |

Brief description of the project and your entity's participation:

For the last 12 years, the BAS Team has provided comprehensive environmental consultation services to the City of Santa Cruz in support of the continued operation, development, and monitoring this site. The Team provided engineering design, CQA, and construction management services during development of the Cell I area. The project included mass excavation and grading, processing and placement of low-permeability soils, installation of a composite liner system, and miscellaneous drainage improvements. After the composite liner system was construction, the BAS Team provided environmental support services for the clean closure of an old burn dump at the site. Chromium-affected soils were allowed to be moved from the unlined area to the newly-lined cell. Following the removal, the GLA Team conducted confirmation sampling of the burn dump footprint to ensure that chromium levels were below hazardous waste levels. The GLA Team recently completed design, regulatory permitting, and installation of a gas and shallow groundwater interception trench along the southeastern corner of the site as part of the site's corrective action program.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: \_\_\_\_\_



Name of entity claiming experience: Bryan A. Stirrat & Associates

Project name/location: Flathead County Landfill – Kalispell, Montana

Name of client (owner or prime Contractor): County of Flathead

Client contact and current telephone number: Dave Prunty – 406/758-5912

Contract amount (listed entity only): \$750,000

Percent of work performed with your entity’s resources: 85%

Type of work (mark all that apply):

- |   |   |
|---|---|
| <input type="checkbox"/> Remediation plans/specifications         | <input type="checkbox"/> Waste characterization                 |
| <input type="checkbox"/> Property / title / deed history research | <input type="checkbox"/> Hazardous waste operations             |
| <input type="checkbox"/> Site surveys                             | <input checked="" type="checkbox"/> CQA testing/monitoring      |
| <input checked="" type="checkbox"/> Site grading design           | <input checked="" type="checkbox"/> Construction management     |
| <input checked="" type="checkbox"/> Drainage system design        | <input type="checkbox"/> Community education/outreach           |
| <input checked="" type="checkbox"/> Erosion control system design | <input checked="" type="checkbox"/> Geotechnical investigations |
| <input checked="" type="checkbox"/> Excavation/embankment design  | <input checked="" type="checkbox"/> Other: See below            |

Brief description of the project and your entity’s participation:

The BAS Team has been providing on-call solid waste engineering support to the Flathead County Solid Waste District since 2000 in support of the development of the Flathead County Landfill. This included design, construction management, and construction quality assurance services for the development of the first lined cell at the site. The groundwater protection system for the new cell consisted of a composite liner and leachate collection and removal system. BAS provided construction management during the excavation of 270,000 cubic yards of material and during the installation of the liner system. In a second stage of the project, BAS performed construction management during the installation of a landfill gas system upgrades. This included monitoring, logging and inspection of the installation of the landfill extraction system; and construction documentation and certification services.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: \_\_\_\_\_



Name of entity claiming experience: Bryan A. Stirrat & Associates

Project name/location: Caltrans Statewide Site Investigation / Remediation Contract

Name of client (owner or prime Contractor): California Department of Transportation

Client contact and current telephone number: Kim Christmann – 916/654-5266

Contract amount (listed entity only): \$2,000,000

Percent of work performed with your entity's resources: 80%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Remediation plans/specifications         | <input checked="" type="checkbox"/> Waste characterization     |
| <input checked="" type="checkbox"/> Property / title / deed history research | <input checked="" type="checkbox"/> Hazardous waste operations |
| <input checked="" type="checkbox"/> Site surveys                             | <input type="checkbox"/> CQA testing/monitoring                |
| <input type="checkbox"/> Site grading design                                 | <input type="checkbox"/> Construction management               |
| <input type="checkbox"/> Drainage system design                              | <input type="checkbox"/> Community education/outreach          |
| <input type="checkbox"/> Erosion control system design                       | <input type="checkbox"/> Geotechnical investigations           |
| <input type="checkbox"/> Excavation/embankment design                        | <input checked="" type="checkbox"/> Other: See below.          |

Brief description of the project and your entity's participation:

The BAS Team provided on-call services related to Caltrans highway development projects. The Team was required to mobilize staff and resources to support concurrent site investigations throughout California. Task orders fell under two categories: remedial action design services and hazardous waste studies. Remedial action design services included feasibility studies, hazardous waste management plan preparation, removal action workplan preparation, and development of remediation plans, specifications and estimates. Hazardous waste studies included health and safety, risk assessment/toxicology, site assessment/investigation services, permit preparation, and data evaluation and analysis. Projects conducted included an assessment of 350 parcels in support of the widening of Interstate 5 in southern Los Angeles County, and site investigations of Caltrans facilities and proposed roadway improvements in San Diego, Imperial, Los Angeles, and Ventura counties.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: \_\_\_\_\_



Name of entity claiming experience: Bryan A. Stirrat & Associates

Project name/location: On-Call Site Investigation and Remediation Support

Name of client (owner or prime Contractor): Los Angeles County  
Metropolitan Transportation Authority

Client contact and current telephone number: Lynn Bell – 213/922-2404

Contract amount (listed entity only): \$300,000

Percent of work performed with your entity's resources: 80%

Type of work (mark all that apply):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Remediation plans/specifications         | <input checked="" type="checkbox"/> Waste characterization     |
| <input checked="" type="checkbox"/> Property / title / deed history research | <input checked="" type="checkbox"/> Hazardous waste operations |
| <input checked="" type="checkbox"/> Site surveys                             | <input type="checkbox"/> CQA testing/monitoring                |
| <input type="checkbox"/> Site grading design                                 | <input type="checkbox"/> Construction management               |
| <input type="checkbox"/> Drainage system design                              | <input type="checkbox"/> Community education/outreach          |
| <input type="checkbox"/> Erosion control system design                       | <input type="checkbox"/> Geotechnical investigations           |
| <input type="checkbox"/> Excavation/embankment design                        | <input checked="" type="checkbox"/> Other: See below.          |

Brief description of the project and your entity's participation:

The BAS Team provided hazardous materials support services in support of the development of the MTA rights-of-way in Los Angeles County and San Bernardino counties. Services provided included environmental site assessments, asbestos and lead paint surveys and abatement design, and responses to emergency spills. BAS responsibilities included preparation of work plans and health and safety plans; supervising the drilling, sampling, and analysis of soil borings; interpretation of analytical results; and delineation of vertical and horizontal extent of contamination. Specific projects performed included assessments of 16- and 25-mile railroad rights-of-way, remediation of construction debris piles containing hazardous materials, and emergency spill response involving drums containing waste oils. BAS also prepared investigation reports describing field activities, and recommended remedial alternatives with associated cost estimates.

Were liquidated damages applied to the project?  Yes  No

If yes, explain: \_\_\_\_\_