Earthlok Soil Stabilizer Soil Stabilizer

Dry Mix Methods for Deep Soil StabilizationUnited States Air Force Soil Stabilization Index System - a ValidationSoil Stabilizer for Use on Universally Accessible TrailsLaboratory and Field Study of a Liquid Ionic Soil StabilizerSoil Stabilization: Principles and PracticeMaterials Evaluated as Potential Soil StabilizersCapabilities in Soil Stabilization for Military PurposesAn Introduction to Soil Stabilization for PavementsSoil Stabilization with Cement and LimeCollection of Documents Pertinent to Development of Military Soil Stabilization Objectives and Requirements (1956-1959)Soil Stabilization for Roadways and AirfieldsSoil StabilizationSoil Stabilization ProjectPresent Status of Soil StabilizationSoil StabilizationSoil StabilizationSummary Reviews of Soil Stabilization ProcessesSoil Stabilizers on Universally Accessible TrailsDesign GuideSoil Stabilization for Pavements Hakan Bredenberg Roger Bergmann Sandesh Gautam O. G. Ingles Jessie C. Oldham Waterways Experiment Station (U.S.) J. Paul Guyer Philip Thomas Sherwood George R. Kozan Owen Graeme Ingles T. Herling Waterways Experiment Station (U.S.) George R. Kozan O. G. Ingles Waterways Experiment Station (U.S.) Roger Bergmann U S Army

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it is a truism that we can no longer freely pick areas with the most suitable ground conditions for building purposes soils must often be improved in order to take the loads from buildings roads and other objects this volume contains papers covering a range of relevant topics and issues

the report covers the validation of a soil stabilization index system which was developed earlier the index system was originated to aid military engineers in selecting the appropriate type and amount of soil stabilizer to use in pavement construction a comprehensive review of literature in the soil stabilization field was used to initially develop the index system laboratory tests and discussions with experts in soil stabilization were used in the validation phase reported herein based on these tests and discussions several changes have been made to the initial index system although the original concept has not been altered the index system is entered with easily determined soil properties and flow charts are followed to arrive at the most suitable stabilizer subsystems containing appropriate tests are used to determine specific amounts of stabilizers use factors construction factors and environmental factors are also considered in the decision making process recommendations are included for additional verification studies of the index system

chemical stabilization of expansive soil has been practiced for quite a time now the use of lime cement stabilization as a traditional method has been well acknowledged understood and standard guidelines for practice have been developed however owing to certain demerits like high production and application cost environmental impact durability issues and most importantly incompatibility with high sulfate soil leading to excessive heaving and swell there is need to develop alternatives to these stabilizers non traditional stabilizers like ionic soil stabilizer have been used by manufacturers in the past and claimed to effectively reduce the swell shrink behavior of expansive soil undocumented

results the absence of laboratory tests proprietary issues however have forced engineers to be reluctant about its use and accept it as suitable options to existing stabilizers this study has focused on meeting existing shortcomings of the ionic stabilizers by studying their effect on expansive soil both in the laboratory and field for this purpose an ionic soil stabilizer was selected from the available commercial products in the market the stabilizer was used to treat the expansive soil from carrollton texas the stabilizer was also used to treat a site in burleson texas the laboratory study focused on observing the effect of treatment on swell potential and strength of the soil at different application rates 1 150 and 1 300 volume of chemical to volume of water ratio and curing days and validating the results through micro analysis of the soil the laboratory tests include basic soil physical property and mechanical property tests such as atterberg limits test bar linear shrinkage test hydrometer test standard compaction test 1 d swell and unconfined compressive strength test soil mineralogy tests including cation exchange capacity and specific surface area were performed to determine soil mineralogy behaviors in addition micro tests such as scanning electron microscope sem imaging energy dispersive spectrometer tests were perform to determine micro structure and elemental behavior of both treated and untreated soils further studies were conducted on the samples treated in the field as well with carrollton soil it is found the standard compaction curve is altered for the treated soil the optimum moisture content increases while the maximum dry density decreases for treated soil compacted at the optimum moisture content and maximum dry density of the treated soil more than 50 of swell reduction is observed and the ucs of the treated soil slightly decreases for burleson soil the standard compaction curve of the treated soil is similar to the one of untreated soil the ionic soil stabilizer is found to successfully reduce the swelling potential and pvr of the active zone of expansive soil generally extending up to 10 feet in field treatment in the field the soil is usually wetted to near saturation with the liquid stabilizer the application mass ratio which is the amount of stabilizer available for soil solids is relatively higher because of the treatment method used in the field the tests in the laboratory were done at the moisture content near to optimum in the light that improvements were observed with the burleson soil the stabilizer shows a potential in expansive soil stabilization there are some discrepancies in findings from the lab and the field which can be ruled out in the future with the development of techniques to closely simulate the field condition ineffectiveness of stabilizer on carrollton soil at given test conditions might be an indication that stabilizers work under certain specified conditions only and concludes that pre study of the suitability of stabilizer is essential nevertheless incorporating all the shortcomings in the current study ionic stabilizers can have a good potential in the future for stabilization of expansive soil

this publication provides technical guidance for civil engineers and other professional engineers and construction managers interested in stabilization of soils for street highway and airfield pavements and similar infrastructure features

soil stabilization is the process whereby soils and related materials are made stronger and more durable by mixing with a stabilizing agent these techniques are used for road construction in most parts of the world although the circumstances and reasons for resorting to stabilization vary considerably

the report consists of a collection of documents appendixes a f prepared during the period 1956 through 1959 which summarize the development of objectives and requirements pertinent to the military soil stabilization research activities the collection includes memoranda correspondence and minutes of conferences which were concerned with the delineation of the broad project objectives in specific terms and measurable parameters to provide realistic guides for the development evaluation and design phases of the stabilization research program

describes an investigation that was undertaken to solve the problem of dust raised by military helicopter landings during field operations such dust clouds can cause damage to turbine engines as well as create a visual signature for drawing hostile fire the goal was to develop a convenient rapid and inexpensive technique for stabilizing soil for helicopter vstol landing pads and expeditionary airfield runways conventional methods such as concreting or asphalting are considered much too expensive and time consuming for tactical use in the field this report presents a detailed evaluation of the stabilization of soil by application of aqueous latex emulsion the success of a given emulsion

application was judged on the basis of one or more of the eight listed criteria author

the americans with disabilities act accessibility guidelines state that ground and floor surfaces should be firm stable and slip resistant this publication provides field personnel with the results of soil stabilizers on universally accessible trails the study areas were the wood river accessible fishing site and day use area on the winema national forest and the bell rock pathway on the coconino national forest seven types of trail surfacing products are discussed page 9

deals with all the aspects of the application of column and mass stabilisation it provides a description of the best practice mainly based on the experiences at seven test sites of the european project eurosoilstab

this manual establishes criteria for improving the engineering properties of soils used for pavement base courses subbase courses and subgrades by the use of additives which are mixed into the soil to effect the desired improvement these criteria are also applicable to roads and airfields having a stabilized surface layer this manual prescribes the appropriate type or types of additive to be used with different soil types procedures for determining a design treatment level for each type of additive and recommended construction practices for incorporating the additive into the soil

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