

Po.-no.	ID	Title	Presenter	All Authors	Institutions	Country
Theme 1: Assessment and monitoring of soil, water and sediment quality						
1a. Assessment and monitoring of soil, water and sediment quality						
1A-01	835	New guidance on the use of remote telemetry in the monitoring and sampling of environmental media	Flow, Goeorge; Hurst, Jake; Ross, Ian	Jake Hurst; Jon Coulson; Roy Dennis; Katy Baker	Arcadis UK	GB
1A-02	1127	High-resolution site characterization based land redevelopment in Switzerland	Martac, Eugen	Eugen Martac	Fugro Consult GmbH	DE
1b. Sensors and sampling						
1B-01	923	Characterization of a former and reactive industrial landfill via non-intrusive investigations and core sampling	Ancel, Ariane	Ariane Ancel ¹ ; Amiel Boullemant ²	1 Ramboll Environ; 2 Rio Tinto	FR
1B-02	853	Groundwater sampling, purge or no purge that is the question	GUERIN, Valérie	Valérie GUERIN ¹ ; Alexandre BOISSON; Jean-Pierre VERGNES; Fabrice QUIOT	1 BRGM	FR
1B-03	936	Column Experiments to Determine Infiltration and Adsorption Characteristics of 1,4-Dioxane in Soil for the Development of Effective Field Screening Tool and Investigation Methods	Hidaka, Ray	Ray Hidaka; Makoto Nakashima	Kokusai Kogyo Co.,Ltd.	JP
1B-04	1071	Suspended Particulate Matter Collection Methods affect the Quantification of Polycyclic Aromatic Compounds (PACs) in the River System	Mansuy-Huault, Laurence	Laurence Mansuy-Huault ¹ ; Catherine Lorgeoux; Emmanuelle Montargès-Pelletier; Fayez Abuhelou; Delphine Catteloin; Valéry Collin; Allan Bauer; Hussein Kanbar; Renaud Gley; Fabien	1 LIEC - CNRS/Université de Lorraine	FR
1B-05	576	Contaminant mass flux measurement in groundwater with passive samplers – A field application	MICHEL, Julien	Julien MICHEL ¹ ; Goedele VERREYDT ² ; Fabrice RICHEZ ¹	1 INERIS; 2 Universiteit Antwerpen	FR
1B-06	1060	Investigation on fibrous sediments in Sweden, an overview on objectives, geophysical method and results.	Norrlin, Johan	Johan Norrlin ¹ ; Lijana Gottby; Johan Nyberg; Anna Apler; Olof Larsson; Sarah Josefsson; Lovisa Zillén	1 The Geological Survey of Sweden (SGU)	SE
1B-07	1019	Characterization of anthropogenic magnetic signature in the Gier river sediments (France)	Perrin, Mathilde	Mathilde Perrin; Jerome Bascou; Veronique Lavastre; Jean-Yves Cottin	Université de Lyon, Université Jean Monnet	FR
1B-08	750	Monitoring the hyporheic zone of small urban rivers with wooden sticks	PONS, Marie-Noelle	Marie-Noelle PONS ¹ ; Yuhai Zhang; Nouceiba Adouani ¹ ; Pascal Breil ² ; Philippe Namour ²	1 CNRS-UL; 2 Irstea	FR
1B-09	194	Comparison of tools and protocols for groundwater sampling	Quiot, Fabrice	Fabrice Quiot ¹ ; Nicolas Diard ² ; Melody Mariot ³	1 INERIS; 2 ERG environnement; 3 EUROFINIS	FR
1B-10	442	Assessment of PFAS in Soil and Groundwater: Direct Comparison of New Analytical Technologies for Comprehensive Analysis of PFAS Including Precursors	Ross, Ian	Ian Ross ¹ ; Allan Horneman ¹ ; Jeff Burdick ¹ ; Jake Hurst ¹ ; Erika Houtz ¹ ; Hans Slenders ¹ ; Tessa Pancras ¹ ; Thomas Held	1 Arcadis	GB
1B-11	712	Calibration of the Polar Organic Chemical Integrative Samplers (POCIS) for Alkylphenols Monitoring in Produced Water: Effect of OASIS beads and Polyethersulfone Membranes.	Silvani, Ludovica	Ludovica Silvani ¹ ; carmela riccardi; Espen Eek; Marco Petrangeli Papini; Nicolas Morin; Gerard Cornelissen; amy oen; Sarah Hale	1 NGI	NO
1c. Molecular monitoring of microbial processes						
1C-01	5919	Metabolic adaptation of an anammox consortium obtained from estuary sediments and its evaluation in the degradation of nitrogen pollutants	Martínez Hernández, Sergio	Arely Gomez Aquino ¹ , Ulises Duran Hinojosa ² , Ana Elena Dorantes Acosta ¹ and Sergio Martínez Hernández ¹		MX
1C-02	912	Shining a light on anaerobic biodegradation of 1,2-Dichloroethane	McCellan, Kristin	Kristin McCellan; Daniela Papenbrock	Arcadis Germany GmbH	DE
1C-03	747	USE OF NEXT GENERATION SEQUENCING TO STUDY THE FEASIBILITY TO APPLY MONITORED NATURAL RECOVERY IN FRESHWATER SEDIMENTS AFFECTED BY ANCIENT HUMAN ACTIVITY	Susana Morelli, Irma	Laura Madueño ¹ ; Bibiana M Coppotelli ¹ ; Viviana M. Starevich ¹ ; Claudia Terada ¹ ; Daniel O Nuccetelli ² ; Nuria C. Vidal ³ ; María E Oneto ³ ; María T Del Panno ¹ ; Irma Susana Morelli ⁴	1 CINDEFI (UNLP-CONICET); 2 YPF S.A.; 3 YPF-Tecnología S.A.; 4 CINDEFI (UNLP-CONICET), CIC-PBA	AR
1C-04	906	Unveiling active microbial populations during in-situ bioaugmentation in two ETBE-polluted sites	Viñas, Marc	Marc Viñas ¹ ; Miriam Guivernau ¹ ; Josep Ruiz ¹ ; Isabel Mori ² ; Fernando García ³ ; Patricia Piñuela ³ ; Joaquim Vila ⁴ ; Francesc X. Prenafeta-Boldú ¹	1 Institute of Agrifood Research and Technology (IRTA); 2 Ibiotec Ambiental; 3 Compañía Logística de Hidrocarburos, CLH S.A.; 4 University of North Carolina at Chapel Hill	ES
1d. Integrative methods, overall indicators						
1D-01	5943	Salinity and modelling of the Annaba aquifer system, Northeastern Algeria	Majour, Habiba	Habiba Majour, Azeddine Hani and Larbi Djabri	University Badji Mokhar Annaba	DZ

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1D-02	613	OAASIS™ : a decision support software as a service for childcare center projects	Pauget, Benjamin	Benjamin Pauguet; Cyrielle Chaize; Robert Carreras	TESORA	FR
1D-03	930	Application of the ILTER decomposition protocol to brownfield soils	PONS, Marie-Noelle	Marie-Noelle PONS ¹ ; Florence Maunoury-Danger ² ; Michael Danger ²	1 CNRS-UL; 2 LIEC-Université de Lorraine	FR
1e. Groundwater-soil-sediment-surface water interaction and system dynamics						
1E-01	950	Methyl-mercury complexes: selection of the thermodynamic properties and application to the modelling of a column experiment	Blanc, Philippe	Philippe Blanc ¹ ; André Burnol; Nicolas Marty; Jennifer Hellal; Valérie Guérin; Valérie Laperche	1 BRGM	FR
1E-02	1017	POLAR PAC (POLYCYCLIC AROMATIC COMPOUND) MOBILIZATION AND TRANSFER IN WATER IN COAL TAR CONTAMINATED SOILS	BOULANGE ¹ , Marine; LORGEUX ² , Catherine	Marine BOULANGE ¹ ; Catherine LORGEUX ² ; Julien MICHEL ³ ; Raymond MICHELS ⁴ ; Pierre FAURE ⁵	1 LIEC - CNRS/Université de Lorraine; 2 UMR 7359, CNRS/Université de Lorraine/CREGU; 3 INERIS; 4 Laboratoire GeoRessources; 5 Laboratoire Interdisciplinaire des Environnements Continentaux - LIEC	FR
1E-03	723	Turbidity data analysis to estimate soil and water losses in different soils managements	Gomes Viana, Douglas	Douglas Gomes Viana ¹ ; Peiqi Peiqi Zhang ² ; Paulo Roberto da Rocha Junior ¹ ; Raphael Bragança Alves Fernandes ³ ; Rabin Bhattarai ⁴ ; Prasanta Kumar Kalita ⁴	1 Federal University of Espírito Santo; 2 Zhejiang University; 3 Federal University of Viçosa; 4 University of Illinois at Urbana-	BR
1E-04	1029	Occurrence and fate of emerging pollutants in groundwater from a municipal landfill	Le Guern, Cécile	Cécile Le Guern ¹ ; Béatrice Béchet ² ; Alexandra Lépinay ³ ; Pierre CONIL ¹	1 BRGM; 2 IFSTTAR; 3 Université de Nantes	FR
1E-05	1107	Risk based quality criteria for re-use of soil and sediment in deep lakes	Lijzen, Johannes	Johannes Lijzen ¹ ; Charlotte Schmidt ² ; Jos P.M. Vink ³ ; Rob N.J. Comans ⁴ ; Tommy Bolleboom ⁵ ; Leonard Osté ³	1 National Institute for Public Health and the Environment RIVM; 2 Rijkswaterstaat; 3 Deltares; 4 Wageningen University; 5	NL
1E-06	643	The impact of anthropopression on surface and groundwater in the Babiogorski National Park (South Poland)	Malina, Grzegorz	Małgorzata Malata ¹ ; Adam Postawa; Grzegorz Malina; Jacek Motyka	1 University of Science and Technology	PL
1E-07	1070	OXYGENATED POLYCYCLIC AROMATIC COMPOUNDS TO DISCRIMINATE THE ORIGIN OF SUSPENDED MATTER IN THE RIVER OF A PAST INDUSTRIAL VALLEY.	Mansuy-Huault, Laurence	Laurence Mansuy-Huault ¹ ; Catherine Lorgeoux; Valéry Collin; Fayeze Abuhelou; Delphine Catteloin; Renaud Gley; Allan Bauer; Benoit Losson; Luc Manceau; Hussein Kanbar; Patrick Billard; Quentin Ravalet; Emmanuelle Montargès-Pelletier	1 LIEC - CNRS/Université de Lorraine	FR
1E-08	1118	GROUNDWATER FLOW AND CONSERVATIVE TRANSPORT MODEL AS A BASIS FOR AN EOC BEHAVIOR STUDY IN A SURFACE MAR (AQUIFER RECHARGE) SYSTEM	Martinez-Landa, Lurdes	Lurdes Martinez-Landa; Cristina Valhondo		ES
1E-09	1024	Can forest fires be a diffuse source of contaminants (PAHs) to the terrestrial system?	Oliveira, Bruna	Isabel Campos; Nelson Abrantes; Bruna Oliveira; Carlos Vale; Jan Jacob Keizer; Cristina Micaelo; Patrícia Pereira		NL
1E-10	588	Hydrocarbon cooling fluid leak delineation in soil and groundwater	Payet, Juliette	Juliette Payet ¹ ; Vincent Besnier; Stéphane Poncet	1 Arcadis	FR
1E-11	948	Degradation of the gas bubbles produced in the soil conditioned with a foaming agent and excavated by earth pressure balance TBM (EPB)	SELMi, Moez	Moez SELMI ¹ ; Mariem KACEM ¹ ; Mehrez JAMEI ² ; Philippe DUBUJET ¹	1 Ecole Nationale; Ingénieurs de saint Etienne; 2 Ecole Nationale; Ingénieur de Tunis	FR
1E-12	425	Évaluation de la qualité des eaux souterraines utilisées en irrigation par approches géochimiques et statistiques dans la plaine de Ghriss, Nord-Ouest Algérien	ZAIDI, Mohamed Amine	Mohamed Amine ZAIDI ¹ ; Samir Belgacem BEKKOUSSA; abdelkader KHALDI	1 University of Mascara	DZ
Theme 2: Risk assessment						
2a. Human health risks						
2A-01	674	Development of Risk Based Screening Levels (RBSLs) for soil and groundwater in the Niger Delta	Bonte, Matthijs	George Devaull ¹ ; Matthijs Bonte ¹ ; Kim Bye Bruun; Jonathan Smith	1 Shell International Petroleum Co. Ltd	NL
2A-02	718	Protocol for the selection of physico-chemical values for non-standardized contaminants for the establishment of soil limit values in Wallonia, Belgium.	Bouhoulle, Elodie	Elodie Bouhoulle	Institut Scientifique de Service Public - ISSeP	BE
2A-03	634	Risk Assessment performed by using multiple lines of evidence: a case study with soil gas and flux chamber measures	Delos, Anna	Francesco Ioppolo; Mara Bellavita; Simone Biemmi	Arcadis Italia	IT
2A-04	682	Laboratory tests to assess trace element mobility at various physico-chemical conditions: tools for soil remediation options, and GW risk assesement	GUERIN, Valérie	Valérie GUERIN ¹ ; Philippe BATAILLARD; Dominique BREEZE; Elicia VERARDO	1 BRGM	FR

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2A-05	622	INTEGRATED APPROACH FOR THE DEVELOPMENT OF TIER III HUMAN HEALTH RISK ASSESSMENT	Motta, Francesca	Francesca Motta; Fabio Canova; Daniela Reale; Elena Leale	AECOM	IT
2A-06	628	Modelling of source to building exclusion distances at petroleum contaminated sites	Verginelli, Iason	Iason Verginelli; Renato Baciocchi	University of Rome Tor Vergata	IT
2b. Environmental risks, including bio-availability						
2B-01	981	Multi surface modeling of trace metals behavior in treated dredged sediment: experimental study and modeling of metals retention on artificial assemblage of natural sorbent phases.	Chenoy, Louise	Chenoy Louise; Guy De Weireld; Anne-Lise Hantson	University of Mons	BE
2B-02	129	Springtails: The canaries for soil pollution	Henssen, Maurice	Marlea Wagelmans; Dick Roelofs		NL
2B-03	1124	Nitrogen fertilization effects on soil carbon in agricultural soils in the Beni-Amir area, Morocco.	OUMENSKOU, HAKIMA	HAKIMA OUMENSKOU; Mohamed EL BAGHDADI; Ahmed BARAKAT; Widad ENNAJI; Lalla Aicha KARROUM; Mohamed AADRAOUI		MA
2B-04	910	Using bioindicators to set up the management plan: a case study on a former mining site	Pauget, Benjamin	Benjamin Pauget ¹ ; Annette de Vaufleury ²	1 TESORA; 2 University of Bourgogne Franche-Comté	FR
2B-05	1129	Microbial respiration of added 13C-labelled sugar in the field – A step towards a non-invasive assessment of ecological functions of polluted sites of high ecological value	Rijk, Ingrid	Ingrid Rijk ¹ ; Alf Ekblad ²	1 Örebro University / Structor Miljöteknik AB; 2 Örebro University	SE
2B-06	713	ECOLOGICAL RISK ASSESSMENT FOR A CONTAMINATED SEDIMENT SITE	Susanni, Daniele	Elisa Bizzotto; Sara Ceccon; Fabio Colombo		IT
2B-07	1035	GEOSPATIAL DISTRIBUTION OF TRACE ELEMENT AVAILABILITY	VALVERDE ASENJO, INMACULADA	INMACULADA VALVERDE ASENJO ¹ ; Juan Pedro Martín Sanz ¹ ; Ana de Santiago Martín ² ; José Ramón Quintana Nieto ¹ ; Cristina Vaquero Perea ¹ ; Antonio Vázquez de la Cueva ³ ; Concepción González Huecas ¹ ; Antonio López Lafuente ¹	1 Universidad Complutense de Madrid; 2 Laval University; 3 Centro de Investigación Forestal-INIA	ES
2B-08	592	Heavy metal pollution, fractionation, and potential ecological risks in sediments from Lake Chaohu (Eastern China) and surrounding rivers	Zhang, Lei	Lei Zhang	Nanjing Institute of Geography & Limnology, Chinese Academy of Sciences	CN
2c. Risk assessment of emerging pollutants and multi-compounds						
2C-01	801	Pollutant fluxes in small catchments: Impact of urbanization, flow dynamics, and pollutant degradation	Guillet, Gaelle	Gaelle Guillet ¹ ; Marc Schwientek ¹ ; Bertram Kuch ² ; Hermann Rügner ¹ ; Peter Grathwohl ¹	1 University of Tübingen; 2 University of Stuttgart	DE
2C-02	441	Fate and Transport Modelling of PFOS in a Fractured Chalk Aquifer Towards a Large Scale Drinking Water Abstraction	Houtz, Erika	Erika Houtz; Ian Ross; Jake Hurst; Jonathan Miles; Jeff Burdick	Arcadis	GB
2C-03	701	„Dealing with the End of Armageddon“: ammunition burning-grounds of the interwar-period as a source of soil contamination	Hube, Daniel	Daniel Hube	BRGM	FR
2C-04	1162	Comparison of column and batch tests for assessing leachability of PFC from soils	Kalbe, Ute	Ute Kalbe ¹ ; C. Piechotta ² ; R. Rothe ²	1 BAM; 2 BAM Federal Institute for Materials Research and Testing	DE
2C-05	440	Understanding Fate and Transport of PFAS to Develop Effective Conceptual Site Models	Miles, Jonathan	Jonathan Miles ¹ ; Ian Ross ¹ ; Erika Houtz ² ; Jeff Burdick ² ; Jeff McDonough ² ; Jake Hurst ¹	1 Arcadis UK; 2 Arcadis US	GB
2C-06	812	New Concawe/ NICOLE technical report on the environmental fate and effects of PFAS, remedial options and legislative developments	Pancras, Tessa	Tessa Pancras ¹ ; Hans Slenders ¹ ; Birgitta Beuthe ² ; Jonathan Smith ² ; Mike Spence ² ; Tomás Albergaria ³	1 Arcadis Netherlands; 2 Concawe; 3 NICOLE	NL
2C-07	1104	1,4-dioxane and 1,3-dioxolane: presence and mobility of contaminants of emerging concern on 1,1,1-trichloroethane polluted sites in Flanders	Van Muylder, Roeland	Roeland Van Muylder ¹ ; Martijn van Houten ² ; Samuel Van Herreweghe ³ ; Griet Van Gestel ⁴ ; Nele Bal ⁴	1 Witteveen+Bos Belgium NV; 2 Witteveen+Bos; 3 EnISSA; 4 OVAM - Public	BE
Theme 3: Advances in remediation technologies						
3a. Bioremediation						
3A-01	1047	Experimental investigation of temperature effect on poly-hydroxybutyrate (PHB) fermentation rate to control electron donor production over time and enhance biological reductive dechlorination of chlorinated aliphatic compounds	Arjmand, Firoozeh	Firoozeh Arjmand ¹ ; Martina Buglioni; Lucia Pierro; Bruna Matturro ² ; Simona Rossetti ² ; Marco Petrangeli Papini ³	1 Sapienza university of rome; 2 IRSA-CNR; 3 University of Rome "La Sapienza";	IT

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3A-02	731	Biotreatment for in-situ dredging of sediments from the Golfe Juan marina: results of microcosms experiments	Battaglia-Brunet, Fabienne	Fabienne Battaglia-Brunet ¹ ; Catherine Joulian ¹ ; Jean Philippe Dos Santos ² ; Nicolas Marmier ³	1 BRGM; 2 HTS BIO; 3 Université de Nice Sophia Antipolis	FR
3A-03	990	Engineered Retardation Factor Manipulation using PlumeStop® Liquid Activated Carbon for Passive Management of Plume Dynamics	Birnstingl, Jeremy	Jeremy Birnstingl ¹ ; Kristen Thoreson ² ; Craig Sandifur ²	1 REGENESIS Remediation Solutions, Europe; 2 REGENESIS, USA	GB
3A-04	952	EFFECT OF PYOVERDINE-PRODUCING BACTERIA ON LEAD SPECIATION IN NON-POINT SOURCE CONTAMINATED SOILS	BOUQUET, Dorine	Dorine BOUQUET ¹ ; Alexandra Lépinay ² ; Pierre Gaudin ³ ; Cécile Le Guern ⁴ ; Liliane Jean-Soro ⁵ ; Thierry Lebeau ²	1 LPG-Nantes; 2 Université de Nantes; 3 Université de Nantes; 4 BRGM Nantes; 5	FR
3A-05	1087	Exploiting wood rotting fungi as tools to enhance the bioremediation of an artificially polycyclic aromatic hydrocarbons polluted soil.	Del Panno, Maria	Natalia Di Clemente ¹ ; Maria T Del Panno ¹ ; Mario Saparrat ²	1 CINDEFI (CONICET - UNLP); 2 INFIVE (CONICET - UNLP)	AR
3A-06	668	Optimization of phenol extraction from Olive Mill Wastewater (OMW) and their utilization in microalgae cultivation	Di Caprio, Fabrizio	fabrizio di caprio ¹ ; Paolina Scarponi ¹ ; Pietro Altamari ¹ ; Gaetano Iaquaniello ² ; Luigi Toro ¹ ; Francesca Pagnanelli ¹	1 sapienza university of rome; 2 BioP	IT
3A-07	679	It works! Enhanced Reductive Dechlorination on two different geological settings in Denmark	Gammeltoft Hindrichsen, Anne	Anne Gammeltoft Hindrichsen; John Ulrik Bastrup	Geo	DK
3A-08	947	Removal of Residual TPH from Weathered Clay Soil During Composting in Bioreactor with the Use of Solid Digestate	Gielnik, Anna	Anna Gielnik ¹ ; Yoan Pechaud; David Huguenot; Giovanni Esposito; Gilles Guibaud; Eric D. Van Hullebusch	1 Université Paris-Est-Communauté	FR
3A-09	866	Stable Isotope Analysis: A tool to assess contaminant remediation	Herrero-Martín, Sara	Sara Herrero-Martín ¹ ; Albert Soler i Gil ² ; Neus Otero ² ; Mònica Rosell ² ; Cristina Domenech ² ; Manuela Barbieri ²	1 Universidad de Barcelona; 2 Universitat de Barcelona	ES
3A-10	623	Groundwater Circulation Well (IEG-GCW®): Distribution of Organic Reagent, Analysis of Biostimulation Processes and Innovative PACE3D Modelling	Jubany, Irene	Marina Badia-Fabregat ¹ ; Irene Jubany ¹ ; Francesc Travesa ² ; Eduard Alesi ³ ; Melanie Esslinger ³ ; Marcel Alesi ³ ; Gert Rehner ³ ; Christoph Gielisch ⁴ ; Aron Kneer ⁴ ; Britta Nestler ⁴	1 Fundacio CTM Centre Tecnologic; 2 Hidronit Medioambiente; 3 IEG Technologie GmbH; 4 Karlsruher Institut für Technologie (KIT)	ES
3A-11	5904	Fungal stimulation biopiles for remediation of soils contaminated with recalcitrant hydrocarbons	Medaura, María Cecilia	María Cecilia Medaura ¹ ; Germán A. André ² ; Evangelina Balada ³ ; María Ruth Clausen ⁴ ; María Esther Barbeito ⁴	Universidad Nacional de Cuyo	AR
3A-12	744	Application of Biostimulation and Bioaugmentation to Promote In Situ Biodegradation of Chlorinated Ethenes in Complex Hydrogeology	Mejac, Mark	Mark Mejac ¹ ; Laurie LaPat-Polasko; Carol Aziz	Ramboll Environ	US
3A-13	1119	Economic and Technical Analysis of Electron Donors for Anaerobic Bioremediation Applications	Newman, Bill	Bill Newman	RNAS Remediation Products	US
3A-14	1084	Biological remediation of PCE in clay at a former dry cleaning site in Värnamo, Sweden	Nord, Helena	Helena Nord	RGS 90	SE
3A-15	730	Application of chemostat systems for adaptation of microbial communities to emerging pollutants	Poursat, Baptiste A.J.	Baptiste. A.J Poursat ¹ ; Martin Braster ² ; Rick Helmus ¹ ; Rob J.M Van Spanning ² ; W. Pim De Voogt ¹ ; Wilfred F.M. Röling ² ; John. R Parsons ¹	1 University of Amsterdam; 2 VU University Amsterdam	NL
3A-16	993	Remediation of Free-Product 1,1,1 TCA and PCE in Low Buffering Capacity Sands	Van Den Eeckhaut, Miet	Miet Van Den Eeckhaut; Karen Van Geert; Wouter Gevaerts	Arcadis Belgium	BE
3b. Chemical remediation						
3B-01	988	OXIDATION OF PAHS AND THEIR BY-PRODUCTS (POLAR PACS) IN THE SATURATED ZONE OF DNAPL-CONTAMINATED SUB-SOILS AFTER PUMPING	JOHANSSON, Clotilde	Clotilde JOHANSSON ¹ ; Philippe BATAILLARD ² ; Coralie BIACHE ³ ; Stefan COLOMBANO ² ; Alain DUMESTRE ¹ ; Jérôme FRAYRET ⁴ ; Antoine JOUBERT ¹ ; Catherine LOGEUX ⁵ ; Thierry PIGOT ⁴ ; Pierre FAURE ³ ; Patrick CHARBONNIER ⁶	1 SERPOL; 2 BRGM; 3 CNRS, Université de Lorraine, UMR7360 - LIEC; 4 Université de Pau et des Pays de l'Adour, UMR5254 - IPREM; 5 CNRS, Université de Lorraine, CREGU, UMR7359 - GeoResources; 6 ArcelorMittal	FR
3B-02	640	Perspectives of clay-salt slimes use for rehabilitation of agricultural soils, contaminated with 137Cs	Maskalchuk, Leanid	Leanid Maskalchuk	International Sakharov Environmental University BSU	BY
3B-03	690	Evaluation of field test of a novel high-pressure ozone injection method for remediation of chlorinated solvent source zones in fractured limestone.	Milner, Hasse	Hasse Milner ¹ ; Jane Piper ² ; Henrik Aktor ³ ; Lone T. Karlby ⁴ ; Reza Gooya ⁵ ; Jens Mortensen ¹ ; Chapman Roos ⁶	1 Region Zealand; 2 Piper Environmental Group; 3 Aktor Innovation; 4 HOFOR; 5 University of Copenhagen; 6 Geosyntec	DK
3B-04	818	Groundwater remediation with ozone in limestone reservoirs; a reactive transport modelling study	Milner, Hasse	Reza Gooya ¹ ; Lone T. Karlby ² ; Dirk Münter ¹ ; Henning Osholm Sørensen ¹ ; Hasse Milner ³ ; Susan L. S. Stipp ¹	1 University of Copenhagen; 2 HOFOR; 3 Region Zealand	DK
3B-05	663	Alkaline hydrometallurgical approach for steel slag management	PEREIRA, Fernando	Fernando PEREIRA ¹ ; Olivier FAURE; Véronique LAVASTRE; Didier GRAILLOT; Jean-Michel HERRI; Jean-Yves COTTIN	1 Mines Saint-Etienne	FR
3B-06	844	Chemical and 14 Carbon radioactive waste management for orphan polluted site remediation	PONCET, Stéphane; DUMOUSSET, Marine	Stéphane PONCET; Marine DUMOUSSET; Raphaël ZANETTA	ARCADIS France	FR

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3B-07	739	Numerical modeling of an in-situ immobilization of arsenic in the subsurface using ferrous chloride	Roemer, Micha	Micha Roemer ¹ ; Timo Krüger ² ; Ilka Wallis ³ ; Hartmut Holländer ¹	1 University of Manitoba; 2 Ingenieurgesellschaft Heidt + Peters mbH; 3	CA
3B-08	797	Using Potassium Persulfate as an Extended Release Oxidant for Sediments, Low Permeable Soils and as a Permeable Reactive Barrier	Smith, Brant	Brant Smith	PeroxyChem	AT
3B-09	1125	Chemical Destruction of Persistent Organic Pollutants Using Sorption-Active Reactive Composite Materials	Sühnholz, Sarah	Sarah Sühnholz, Katrin Mackenzie, Anett Georgi and Frank-Dieter Kopinke	Helmholtz Centre for Environmental Research UFZ	DE
3c. Physical techniques, including thermal techniques						
3C-01	1022	Designed hydrocyclone for contaminated soil particles separation	Chang, YiKuo	YiKuo Chang ¹ ; Yi-Liang Shu; Cheng-Di Dong; Chiu-Wen Chen; Chia-Ying Li	1 Central Taiwan University of Science and Technology	TW
3C-02	1134	Overview of the current injection technologies for in-situ remediation with focus on experiences from a new emplacement technology	Dannwolf, Uwe	Uwe Dannwolf ¹ ; Gordon Bures ¹ ; Mike Mueller ²	1 RiskCom GmbH; 2 PeroxyChem Environmental Solutions	DE
3C-03	905	Thermal treatment dimensioning regarding to energetical cost and contaminant behavior according to temperature	Emery, Maxime	Maxime Emery ¹ ; Christophe Chene	1 SOLEO SERVICES	FR
3C-04	727	Multiphase flow modelling of the pumping of a DNAPL: case study of hexachlorobutadiene in a shallow alluvial aquifer	GIRAUD, Quentin	Quentin GIRAUD ¹ ; Benoît PARIS ¹ ; Julio GONÇALVÈS ² ; Antoine JOUBERT ³ ; Stéfán COLOMBANO ⁴ ; David CAZAUX ⁵	1 INTERA; 2 CEREGE; 3 SERPOL; 4 BRGM; 5 INOVYN	FR
3C-05	842	STARx for the Treatment of Contaminated Soils and Liquid Organic Wastes – From Prototype to Full Scale Application	Grant , Gavin	Grant Scholes ¹ ; Gavin Grant; David Major; Cody Murray	1 Savron	CA
3C-06	580	Thermal remediation of bedrock on development site in Stockholm	Holm, Jesper	Jesper Holm ¹ ; Göran Nilsson ² ; Niklas Törneman ³ ; Janna Svensson ³ ; Matilda Johansson ³	1 Krüger A/S; 2 KUAB; 3 Sweco	DK
3C-07	716	The Remediation of an Acid Tar Lagoon in Mons, Belgium	Kahn, Adrien	Adrien Kahn; Cédric Oger; Catherine Van Wouwe; Pietro Perseo	SUEZ REMEDIATION	BE
3C-08	840	Surfactant Foam Technology For Soil Remediation: Effect of Soil Characteristics and Heterogeneity on Foam Propagation.	Maire, Julien	Julien Maire ¹ ; Emmanuelle Brunol ¹ ; Iheb Bouzid ¹ ; Nicolas Fatin-Rouge ¹ ; Quentin Giraud ² ; Benoit Paris ²	1 Université de Bourgogne Franche-Comté; 2 INTERA	FR
3C-09	841	Surfactant Foam Technology For Enhanced Hydrogen Delivery In Contaminated Groundwater	Maire, Julien	Julien Maire ¹ ; Emmanuelle Brunol ¹ ; Nicolas Fatin-Rouge ¹ ; Antoine Joubert ² ; Alain Dumestre ² ; Stefan Colombano ³ ; Hossein Davarzani ³ ; Christophe Avril ⁴ ; Benoit Delobelle ⁴ ; Cedric Marion ⁵ ; David Cazaux ⁵	1 Université de Bourgogne Franche-Comté; 2 SERPOL; 3 BRGM; 4 Mahytec; 5 INOVYN	FR
3C-10	999	Biochar for the remediation of atrazine from soil and groundwater - effects of ash content and ph on atrazine degradation and transport	McMillan, Oliver	Oliver McMillan	UNIVERSITY OF CAMBRIDGE	GB
3C-11	927	Thermal Remediation Sustainability: How Does Modelling Help?	Pennell, Joanne	Joanne Pennell ¹ ; James Baldock; Jay Dablow	1 ERM	GB
3C-12	913	Onsite ex-situ washing of multi-contaminated soils: design and implementation for the remediation of a large industrial site	Perrier, Thomas	Thomas Perrier ¹ ; Franck Guerra ² ; Aurélien Triger ² ; Adnan Sefer ³	1 Ramboll Environ; 2 Sol Environment; 3 Clariant	FR
3C-13	1031	Thermal enhancement of coal tar pumping in saturated porous media	Philippe, Nicolas	Nicolas Philippe ¹ ; Hossein Davarzani ¹ ; Manuel Marcoux ² ; Stefan Colombano ³ ; Delphine Kaifas ³ ; Aurélien Triger ³ ; Pierre-Yves	1 BRGM; 2 IMFT; 3 Sol Environment	FR
3C-14	1095	Ex-situ Thermal Desorption of TPH contaminated soil	Saadaoui, Hatem	Hatem Saadaoui ¹ ; Jan Haemers ² ; Teddy Deroy ³	1 Haemers Technologies; 2 HAEMERS-TECH; 3 Perenco Rep	BE
3C-15	715	Development of active capping materials for oil spill contaminated sediment remediation	Silvani, Ludovica	Ludovica Silvani ¹ ; Adriano Rossi; Paolo Di Palma; Carmela Riccardi; Sarah Hale; Paolo Viotti; Marco Petrangeli Papini	1 NGI	NO
3d. Phytoremediation and ecological engineering						
3D-01	953	COUPLING LEAD PHYTOEXTRACTION BY INDIAN MUSTARD AND SOIL BIOAUGMENTATION: STAINS SELECTION AND COMPARISON OF THE COUPLING EFFICIENCY WITH PHYTOEXTRACTION ASSOCIATED WITH EDTA	BOUQUET, Dorine	Dorine BOUQUET ¹ ; Armelle Braud; Thierry Lebeau ²	1 LPG-Nantes; 2 Université de Nantes	FR
3D-02	589	Single and intercropping cultivation of aquatic macrophytes in barium-affected soil phytoremediation.	Egreja Filho, Fernando	Fernando Egreja Filho ¹ ; Cássio Francisco Carvalho ² ; Douglas Viana ² ; Fábio Pires ² ; Robson Bonomo ² ; Alberto Cargnelutti Filho ³ ; Luiz Fernando Luiz Fernando Martins ⁴ ; Leila Beatriz Cruz ⁵ ; Mauro Nascimento ⁵	1 Federal University of Minas Gerais; 2 Federal University of Espírito Santo; 3 Federal University of Santa Maria; 4 PETROBRAS/CENPES; 5 Petrobras	BR
3D-03	848	Potential of Pistia stratiotes for phytoremediation of arsenic: influence of nitric oxide on absorption and tolerance to the pollutant	Farnese, Fernanda	Fernanda Farnese ¹ ; Juraci Alves de Oliveira; Paulo Eduardo Menezes-Silva; Gutenberg Almeida	1 Federal Institute of Science and Technology	BR

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3D-04	635	Barium tolerance, phytoextraction capacity and resprouting ability of aquatic macrophytes in barium polluted flooded soils	Gomes Viana, Douglas	Douglas Gomes Viana ¹ ; Cássio Francisco Moreira de Carvalho; Fábio Ribeiro Pires; Robson Bonomo; Fernando Barboza Egreja Filho; Alberto Cargnelutti Filho; Luiz Fernando Martins ² ; Mauro Cesar Pinto Nascimento ³ ; Leila Beatriz Silva Cruz ³	1 Federal University of Espírito Santo; 2 PETROBRAS/CENPES Biotechnology Management; 3 Petrobras Environmental Engineering area	BR
3D-05	855	Use of cereal crops in phytoremediation of As-polluted soils. Effect on plant physiology	Lobo, MC.	Agueda González; Mar Gil-Diaz; Juan Alonso; MC. Lobo	IMIDRA	ES
3D-06	850	Phytoremediation of aquatic environments contaminated with arsenic: is it possible to increase the tolerance of plants to the pollutant?	Menezes Silva, Paulo Eduardo ¹ ; Farnese, Fernanda	Paulo Eduardo Menezes Silva ¹ ; Juraci Alves de Oliveira; Fernanda Farnese; Adinan Alves da Silva; Fernanda Vidal de	1 Instituto Federal Goiano	BR
3D-07	684	Assessment of two rice cultivars (<i>Oryza sativa</i> L.) for phytoremediation of barium polluted flooded soils	Pires, Fábio	Fábio Pires ¹ ; Paulo Roberto Cleyton de Castro Ribeiro; Douglas Gomes Viana; Fernando Barboza Egreja Filho; Robson Bonomo; Alberto Cargnelutti Filho; Luiz Fernando Martins ² ; Mauro César Pinto Nascimento ³ ; Leila Beatriz Silva Cruz ³	1 Federal University of Espírito Santo; 2 Petrobras Research and Development Center (CENPES); 3 Environmental Engineering area of Petrobras (E&P-UO-ES/SMS/MA)	BR
3e. Nanoremediation						
3E-01	1058	Impact of the presence of a natural biofilm on mobility and reactivity towards tetrachloroethylene (PCE) of nZVI used for Nanoremediation	Crampon, Marc	Marc Crampon ¹ ; Jennifer Hellal; Caroline Michel; Christophe Mouvet; Guillaume Wille; Patrick Ollivier	1 BRGM	FR
3E-02	854	In situ application of nano zero-valent iron (nZVI) for reducing mobility of As and Hg in a brownfield.	Lobo, MC.	M. Gil-Diaz ¹ ; J. Alonso ¹ ; E. Rodriguez-Valdés ² ; JR. Gallego ³ ; MC. Lobo ¹	1 IMIDRA; 2 Universidad de Oviedo; 3 Univerisdad de Oviedo	ES
3E-03	621	Testing of an in situ adsorptive barrier of iron oxide nanoparticles for dissolved arsenic removal, in Asturias, Spain	Otaegi, Nerea	Nerea Otaegi ¹ ; Ekain Cagigal ¹ ; Rainer Meckenstock ² ; Vitor Correia ³	1 Tecnalia Research & Innovation; 2 Universitaet Duisburg-Essen; 3 Geoplano - Consultores, SA	ES
3E-04	1105	Methodology of laboratory tests for the support of the reactive properties of zero-valent iron nanoparticles by the application of direct current	Pešková, Kristýna	Kristýna Pešková ¹ ; Jaroslav Nosek; Lucie Cádrová	1 Technical University in Liberec	CZ
3E-05	1027	Magnetic Porous Carbon Materials Derived from Biomass With High Remediation Ability	Petala, Eleni	Eleni Petala	Regional Centre of Advanced Technologies and Materials	CZ
3E-06	1117	The application and behaviour of nZVI during the treatment of chlorinated hydrocarbons in the field test at Spolchemie site	Stejskal, Vojtech	Vojtech Stejskal ¹ ; Jan Slunský ² ; Tomáš Lederer ³ ; Jürgen Braun ⁴	1 Technical University of Liberec; 2 NANO IRON, s.r.o.; 3 Aquatest a.s.; 4 University of	CZ
3E-07	599	Simulation of the NAPL source zone remediation by injecting nZVI suspensions: application to PCE remediation	Tsakiroglou, Christos	Christos Tsakiroglou ¹ ; Alexandra Sikinioti-Lock; Katerina Terzi	1 Foundation for Research and Technology	GR
3f. Stabilization techniques						
3F-01	939	Assessing natural clays of a contaminated site to stabilize and reduce the ecotoxicity of a coal tar	Fatin-Rouge, Nicolas	Nicolas Fatin-Rouge ¹ ; Julie Brand ² ; Annette Devaufleury ³ ; Rachida Bamze Attoumani ³ ; Nadia Crini ³ ; Stefan Dragos Gaitanaru ⁴ ; Ioan Bica ⁴	1 University of Bourgogne Franche-Comté; 2 Université de Franche-Comté, UMR 6213-UTINAM; 3 Université de Bourgogne Franche-Comté; 4 University of Bucharest	FR
3F-02	799	Innovative Formulations for Reductive Adsorption and Precipitation of Heavy Metals using Elemental Iron, Iron Sulfides, and Related Reactive Minerals	Mueller, Mike	Mike Mueller	PeroxyChem	AT
3g. Combined treatment technologies and technology trains						
3G-01	798	Retention soil filter – an effective nature based technique for removal of micropollutants from wastewater treatment plant effluents	Brunsch, Andrea	Andrea Brunsch ¹ ; Ekkehard Christoffels; Thomas Ter Laak; Huub Rijnaarts	1 Erftverband	DE
3G-02	665	Treatment Train Targeting Chlorinated Solvents at an Active Pharmaceutical Site in the UK	Evans, Chris	Chris Evans	HBR Limited	GB
3G-03	615	Investigation of geochemical long-term Processes by flooding of the former Königstein uranium mine	Hache, Michaela	Michaela Hache; Ulf Jenk ¹ ; Andrea Kassahun ¹	1 Wismut GmbH	DE
3G-04	767	Combining thermal treatment with ISCO and bio for reduced cost and more sustainable implementation	Heron, Gorm	Gorm Heron ¹ ; Seth Pitkin ² ; Eliot Cooper ²	1 TerraTherm; 2 Cascade Technical Services	US
3G-05	832	Enhancement of recovery of chlorinated volatile organic compounds from a complex interbedded aquifer	Hurst, Jake	Jake Hurst; Jonathan Miles; mark webb; Katy Baker	Arcadis UK	GB

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3G-06	693	Remediation of an As-Hg polluted soil by means of enhanced soil washing with ZVI nanoparticles	Luis R. Gallego, José	Carlos Boente; Carlos Sierra; Juan María Menéndez-Aguado; Eduardo Rodríguez-Valdés; Diego Baragaño; José Luis R.	1 University of Oviedo	ES
3G-07	686	Reusable iron-composites as heterogeneous catalysts in the electro-Fenton degradation of Diclofenac	Rosales Villanueva, Emilio	Emilio Rosales Villanueva ¹ ; Silvia Diaz ² ; Marta Pazos Curras ¹ ; M. Angeles Sanroman Braga ¹	1 University of Vigo; 2 Instituto Politécnico Nacional	ES
3G-08	1099	ISTD & ISCO technologies combination: experimental study of persulfate heat activation	Saadaoui, Hatem	Hatem Saadaoui ¹ ; Jan Haemers ² ; Thibaut D'hondt ² ; Mike Mueller ³	1 Haemers Technologies; 2 HAEMERS-TECH; 3 PeroxyChem Environmental Solutions	BE
3G-09	1069	Engineering the Treatment Train: Implementing Biological Remediation in Soil after Smouldering Remediation of Heavy Hydrocarbon Contamination	Switzer, Christine	Christine Switzer; Neil McCosh; Amy Curtis-Hamilton; Andrew Pape; Charles Knapp	University of Strathclyde	GB
3h. Other technologies						
3H-01	989	A 20-Site Review: Groundwater pH Effects of An Electron Donor Microemulsion	Maerten, Kris	Kris Maerten ¹ ; Craig Sandifur ² ; Joy Gravitt ²	1 REGENESIS Remediation Solutions, Europe; 2 REGENESIS, USA	GB
3H-02	700	International Advanced Master® "Management of polluted sites and mineral waste processing/recycling"	PEREIRA, Fernando	Fernando PEREIRA ¹ ; Virginie BRUYAS; Jean-Michel HERRI; Karine ROTTIER; Didier GRAILLOT; Cyril FAURE	1 Mines Saint-Etienne	FR
3H-03	951	Modelling of Air Flow in the Capillary Break Layer of Buildings at Polluted Sites	Skovsgaard, Jakob	Jakob Skovsgaard; Hans Bengtsson	Ramboll Environ	DK
Theme 4: Strategies and policies for pollution management and remediation						
4a. Remediation goals and strategies						
4A-01	1116	Shut-down criteria for in-situ thermal remediation (ISTR) based on hot vapor concentration	Bieber, Laura	Laura Bieber ¹ ; Uwe Hiester	1 reconsite GmbH	DE
4A-02	775	Challenges in investigation and remediation of Chlorinated Compounds	Birn Nielsen, Karin	Karin Birn Nielsen	Central Denmark Region	DK
4A-03	954	IN SITU MANAGEMENT WITH A SECURE CROPPING SYSTEM FOR MODERATELY LEAD CONTAMINATED ALLOTMENT GARDENS	BOUQUET, Dorine	Dorine BOUQUET ¹ ; Alexandra Lépinay ² ; Pierre Gaudin ² ; Liliane Jean-Soro ³ ; Cécile Le Guern ⁴ ; Thierry Lebeau ²	1 LPG-Nantes; 2 Université de Nantes; 3 IFSTTAR; 4 BRGM Nantes	FR
4A-04	940	Development of a simplified method for the assessment of the environmental impacts of groundwater remediation processes	Caridei, Francesco	Francesco Caridei ¹ ; Sarah Bonvicini ² ; Vicenç Martí ³ ; Costanza Martina ² ; Roger Midence ¹	1 Ecosurvey®; 2 Alma Mater Studiorum Università di Bologna; 3 EEBE	IT
4A-05	955	Applying geostatistics to assign waste ownership and waste management responsibilities	Delos, Anne	Caroline LE BOULCH; Anne Delos		FR
4A-06	1106	Westward Expansion to Urban Remediation and Watershed Reclamation: US EPA Superfund Optimization Lessons Learned at Legacy Mining and Smelter Sites in the American West.	Dyment, Stephen; Pachon, Carlos	Stephen Dyment; Carlos Pachon	US EPA	US
4A-07	949	Assessment of effects of PAHs on soils functions in contaminated soils	Enell, Anja	Jana Weiss ¹ ; Pär-Erik Back ² ; Dan Berggren Kleja ² ; Anja Enell ² ; Magnus Engwall ³ ; Malin Fransson ⁴ ; Sara Hallin ¹ ; Christopher Jones ¹ ; Sarah Josefsson ⁵ ; Maria Larsson ³ ; Lars Rosén ⁶ ; Astrid Taylor ¹ ; Maria Viketoft ¹ ; Yevheniya Volchko ⁶ ; Annika Åberg ² ; Karin Wiberg ¹	1 Swedish University of Agricultural Sciences; 2 Swedish Geotechnical Institute; 3 Örebro University; 4 Swedish Transport Administration; 5 The Geological Survey of Sweden (SGU); 6 Chalmers University of	SE
4A-08	829	Tackling non-point source lead contaminated soils	Otte, Piet	Piet Otte; Martine Bakker; Johannes Lijzen; Ellen Brand; Arjen Wintersen; Marco Zeilmaker	National Institute for Public Health and the Environment RIVM	NL
4A-09	4244	NATIONAL RISK MANAGEMENT STRATEGY FOR CONTAMINATED LAND IN FINLAND	Pyy, Outi	Outi Pyy ¹ , Anna-Maija Pajukallio ² , Sarianna Tikkanen ¹	1 Finnish Environment Institute, 2 Ministry of the Environment	FI
4A-10	778	The Danish way to registration, exchange, reporting and publication of data from contaminated sites.	Ryan Pedersen, John	John Ryan Pedersen	Central Denmark Region	DK
4A-11	697	Conceptual Site Models for Niger Delta Ecozones	Smith, Jonathan	Jonathan Smith ¹ ; Stephen Truchon ² ; George DeVaul ² ; Kim Bye Bruun ³	1 Shell Global Solutions (UK) Ltd; 2 Shell Global Solutions US Inc.; 3 Shell Petroleum Development Company of Nigeria Ltd	NL
4A-12	702	Soil and Groundwater Visualization Tool for spills in the Niger Delta: LORAX-Nigeria	Smith, Jonathan	Jonathan Smith ¹ ; Andy Lee ²	1 Shell Global Solutions (UK) Ltd; 2 Shell Petroleum Development Company of Nigeria	NL
4A-13	694	Remediation Industry Best Practice Guidance: An Illustrated Handbook of LNAPL Transport and Fate in the Subsurface	Sweeney, Rob	Rob Sweeney		GB

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4A-14	756	INVENTORY OF POTENTIAL CONTAMINATED SITES AS KEYSTONE OF SOIL POLICY	Van Trier, Nathalie	Nathalie Van Trier ¹ ; Bruno Billiaert; Johan Ceenaeme; Eddy Van Dyck	1 OVAM	BE
4b. Sustainability and socio-economic appraisal of remediation technologies and strategies						
4B-01	567	Remediation techniques decision making tool GAMMA	Aldric, Jean-Marc	Jean-Marc Aldric; Stéphane Muguet		BE
4B-02	1141	Leveraging Big Data and Cognitive Computing for Remediation Selection, Benchmarking, and Environmental Portfolio Optimization	Divine, Craig	Craig Divine	Arcadis US	BE
4B-03	979	Online tool to stimulate the use of innovative remediation techniques in the Brussels Capital Region	Enkels, Koen	Koen Enkels ¹ ; Wouter Gevaerts ¹ ; Karen Van Geert ¹ ; Bernard Lemaire ² ; Saïd El Fadili ² ; Jean-Pierre Janssens ²	1 Arcadis Belgium; 2 BIM / IBGE	BE
4B-04	919	The advantage of thermally enhanced bio-stimulation for sustainable land use	Furukawa, Yasuhide	Yasuhide Furukawa ¹ ; Takaaki Shimizu ¹ ; Takeshi Kobayashi ²	1 Takenaka corporation; 2 Yokohama National University	JP
4B-05	4308	Means to attain sustainable risk management of contaminated sites in Finland	Jaana Sorvari, Assoc.	Jaana Sorvari* ¹ , Meri Nihtilä ¹ , Jussi Reinikainen ² , Outi Pyy ²	1Aalto University, P.O. Box 15200, 00076 Aalto, 2Finnish Environment Institute	FI
4B-06	567	Remediation techniques decision making tool GAMMA	Muguet, Stéphane	Stéphane Muguet ¹ ; Jean-Marc Aldric	1 Almadius	BE
4B-07	938	Development of a Sustainable Remediation Evaluation Tool in Japan	Nakashima, Makoto	Makoto Nakashima; Kay Hataka; Tetsuro Sato; Hiroto Yamauchi	Kokusai Kogyo Co.,Ltd.	JP
4B-08	813	SUSTAINABLE MANAGEMENT OF ANTHROPIC BACKFILL MATERIALS: A TECHNICAL PROPOSAL TO OVERCOME THE IMPRACTICABILITY OF THE NEW ITALIAN RULES	Susanni, Daniele	Daniele Susanni; Sara Ceccon		IT
4B-09	582	Sustainability assessment tool of soil remediation and redevelopment projects	Van den Bossche, Peter	Peter Van den bossche ¹ ; Maarten Schäffner ¹ ; Griet Van Gestel ² ; Johan Ceenaeme ²	1 Witteveen+Bos; 2 OVAM - Public Waste Agency of Flanders	BE
4c. Managing large scale industrial pollution						
4C-01	600	Taking sustainable risk based land management to petrochemical impacted sites in Libya	Alzien, Salahadein	Salahadein Alzien ¹ ; Paul Bardos ² ; Uwe Schneidewind ¹ ; Rafiq Azzam ¹ ; Claudia Post ¹	1 RWTH Aachen University; 2 University of Brighton, Brighton, UK, r3 Environmental Technology Ltd.,	DE
4C-02	608	Evaluation, Remediation and Long-Term Management of a Large Comingled Dilute VOC Plume	Cox, Craig	Craig Cox	Cox-Colvin & Associates, Inc.	US
4C-03	958	IMPROVING MANAGEMENT AND REHABILITATION OF CONTAMINATED SOILS AT THE SUDOE REGION (PROJECT SOIL TAKE CARE)	Jubany, Irene	Montse Calderer ¹ ; Irene Jubany ¹ ; M.Inmaculada Álvarez-Fernández ² ; Celestino González-Nicieza ² ; Marilyne Soubrand ³ ; Emmanuel Joussein ³ ; M.Teresa Condesso de Melo ⁴ ; Myriam Schmutz ⁵ ; Michel Franceschi ⁵ ; Xavier Boespflug ⁶ ; Silvia Martinez ⁷ ; Angel Faz ⁷ ; Christelle Gramaglia ⁸ ; Katrin Erdlenbruch ⁸ ; Jérôme Viers ⁹ ; José Darrozes ⁹	1 Fundacio CTM Centre Tecnologic; 2 Universidad de Oviedo; 3 Université de Limoges; 4 Instituto Superior Técnico, Universidade de Lisboa; 5 Géoresources et Environnement; 6 CIMES; 7 Technical University of Cartagena; 8 Irstea; 9 CNRS	ES
4C-04	1076	Technical fact sheets on the relevance of industrial groundwater monitoring network: A tool for priority actions and pollution management	Schomburgk, Susanne	Susanne Schomburgk; Hubert Leprond	BRGM	FR
4d. Managing large scale agricultural pollution						
4D-01	651	MONITORING OF SOIL SALINITIES IN AN IRRIGATED AREA	Kaman, Harun	Harun Kaman ¹ ; Ahmet Kurunç; Mahmut Çetin	1 Akdeniz University	TR
4D-02	652	Evaluation of soil salinity and alkalinity in an irrigated agriculture	Kaman, Harun	Harun Kaman ¹ ; Mahmut Çetin; Cevat Kırdar	1 Akdeniz University	TR
4D-03	653	Evaluation of Irrigation Performance in an Irrigated Area	Kaman, Harun	Harun Kaman ¹ ; Mahmut Çetin; Cevat Kırdar	1 Akdeniz University	TR
4D-04	1126	AGRICULTURAL POLLUTION IN BÉNI-AMIR REGION (TADLA, MOROCCO).	OUMENSKOU, HAKIMA	HAKIMA OUMENSKOU; Mohamed EL BAGHDADI; Ahmad BARAKAT; Widad ENNAJI; Lalla Aicha KARROUM; Mohamed AADRAOUI		MA
4D-05	575	A preliminary study on the technical system of land consolidation integrated with soil remediation	Wan, Xiaoming	Xiaoming Wan		CN
Theme 5: Reuse and upgrading of land, water and sediment in the circular economy						
5a. Brownfield regeneration and redevelopment of former industrial areas						

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5A-01	604	Redevelopment of a former industrial area: do willows like Heavy Metal	Hennsen, Maurice	Cirsten Zwaagstra ¹ ; Marlea Wagelmans, Maurice Henssen	1 Bioclear	NL
5A-02	807	GOAL SETTING OF GROUNDWATER REMEDIATION IN AN OLD INDUSTRIAL AREA - CASE HÄRMÄLÄNRANTA IN TAMPERE	Parviainen, Juha	Juha Parviainen	Ramboll Finland Oy	FI
5b. Recovery of nutrients and other valuable resources						
5B-01	1100	Cadmium and zinc recovery from soils using hyperaccumulator plants	Simonnot, Marie-Odile	Marie-Odile Simonnot ¹ ; Claire Hazotte; Baptiste Laubie; Frédéric Rees; Jean Louis Morel	1 Université de Lorraine	FR
5c. Reuse and upgrading of water, soil and sediment products						
5C-01	1053	Effect of using reclaimed water on the development of microbial biofilms on drip irrigation systems	Biel, Carmen	Carmen Biel; Marc Vinas; Miriam Guivernau; Robert Save	Institute of Agrifood Research and Technology (IRTA)	ES
5C-02	873	Land quality assessment for sustainable agriculture in the northeastern part of the Tadla plain	ENNAJI, WIDAD	WIDAD ENNAJI		MA
5C-03	1003	Groundwater heat pump : A case study in the city of Lyon	Gruffat, Vincent	Vincent Gruffat; Aurélie Labastie	ARCADIS France	BE
5C-04	660	Alteration of arsenic release from excavated sedimentary mudstone with oxidative weathering in Japan	Kamata, Akihide	Akihide Kamata; Toshihiko Miura; Tetsumi Higasayama; Masahiko Katoh		JP
5C-05	639	Relationship between arsenic release from excavated soil and sedimentary rock and its phases by sequential extraction	Katoh, Masahiko	Masahiko Katoh; Mariko Watanabe		JP
5C-06	1111	Improvement of excavated materials management by using urban geochemical baseline data – Nantes case study (France)	Le Guern, Cécile	Cécile Le Guern ¹ ; Baptiste Sauvaget ² ; Pierre CONIL ¹ ; Vivien Baudouin ¹	1 BRGM; 2 BRGM/Mines ParisTech PSL	FR
5C-07	20	Evaluation of Glauconite Sediments as an Amendment for Sandy Soils in Egypt 1- Preliminary studies	Morsy, Mahmoud	Mahmoud Morsy	Faculty of Agriculture ,Minia University	EG
5C-08	1140	A new regulation to promote beneficial use of excess soil materials	Reinikainen, Jussi	Jussi Reinikainen	SYKE	FI
5C-09	661	Arsenic phases and its leaching behavior in excavated sedimentary rock and soil by up-flow column leaching test	Suzuki, Shoji	Shoji Suzuki; Masahiko Katoh		JP
5C-10	1042	Sediments and suspended matter contamination of the dam reservoirs	Zemeřka, Gabriela	Gabriela Zemeřka	Cracow University of Technology	PL
Theme 6: Sustainable use & spatial planning of the subsurface						
6a. Ecosystem services and natural capital, socio-economic value of soil-water systems						
6A-01	1131	SITE INVESTIGATION, SUSTAINABLE REMEDIATION, AND ECOLOGICAL RESTORATION - A FRAMEWORK FOR EVALUATION	Nielsen, Mark	Mark Nielsen		FR
6b. The role of the natural system in climate change adaptation and urban resilience						
6B-01	678	TopSoil - Resilient soil and water resources, understanding the water beneath your feet	Johnsen, Rolf	Rolf Johnsen	Central Denmark Region	DK
6c. Sustainable land use and spatial planning of the subsurface						
6C-01	875	Progress in Sustainable Land Management Worldwide	Maco, Barbara	Barbara Maco ¹ ; Nicola Harries; Hans Slenders; Francois Beaudoin; Jonathan Smith; Laurent Bakker; Claudio Albano; James Henderson; Yasuhide Furukawa; Alfonso Rodriguez; Colin Chen; Mengfang Chen; Renelle Watson	1 WACTOR & WICK LLP	GB
6C-02	929	Selection of perennial plant for rehabilitation lime stone mining area	Sittitooon, Nalin	Nalin Sittitooon ¹ ; Jirathon Hongrathanakorn ² ; Wasana E-ka ²	1 Institute of Medicine; 2 Sna Sakoi Pattana Co. Ltd.	TH
6C-03	1038	SOIL QUALITY RECOVERY IN A CHRONOSEQUENCE OF ABANDONED VINEYARDS	VALVERDE ASENJO, INMACULADA	INMACULADA VALVERDE ASENJO ¹ ; Cristina Vaquero Perea ¹ ; Juan Pedro Martín Sanz ¹ ; Ana de Santiago Martín ² ; Concepción González Huecas ¹ ; Antonio López Lafuente ¹ ; Antonio Vázquez de la Cueva ³ ; José Ramón Quintana Nieto ¹	1 Universidad Complutense de Madrid; 2 Laval University; 3 Centro de Investigación Forestal-INIA	ES